

cacccatata gccatgtctc tcatnnggtc ccatgactcc tatctgatgt cccatcatca 120
 ccaataattt aagtgcctaa ctaatgggtc catgcatatc cttatgtcta tataaatatt 180
 caaggccgca agcattgagg accaacacaa atcattcaca tcataaagtg ttgaaatta 240
 aaattctcaa cacttctctt caaccattct cttctcagat caatacaaca atgggatttc 300
 gttacctggc atatataggc attcaaagcg gtgacgcacc taaggctatc ttgcagtcta 360
 tgtcggagag aaattga 377

<210> 1477
 <211> 288
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1477

ntggctaatt ctgtcatttc aaggggtcaa atgagcttgg aagtcagaac ctctgcactt 60
 gaataattgg gctacgagtt tggactttgt tttgtgtaat tagtttagtt aggtatatta 120
 gatggaccta atcaaggcat atcacttctt tttgtgtagt cactttatat attagtggaa 180
 gttagttagt tagttagtta cttcattttg taaaaaacia aattagttac ttgctgtgca 240
 aactttctct tttctctcaa ctattcatta ttcttcttcc ctttttca 288

<210> 1478
 <211> 508
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1478

tccgaccacc ttacttatat attctttatt cgtatatanc tgggtgtttnn taatanntnn 60
 nccagcgag ttgattgtag cgtgcaagcc cttagancac cgccgctgca actcgcggca 120
 acatgtggct gctcttgctt tttcaaaggt cggatactca ccacacacgc gggggcaaaa 180
 aacatgcatt acttgacctt gcttgttgca ttaagacgac tcgcacgaac tatagtgcgc 240
 tctcgagacc atgtttgaag atggagctgc gctgacacca cgcttgaagc cggagttgct 300
 gtgatctaga tacagctaga cacagcttat gcttatctta tgggtaacg tatccggcgt 360
 gtactcagat ctgctctaaa accacatacc tttcgctaca ccatatcgac cccaagacg 420

atgaccttct caatgaccgt tagacacaag acttgaatca tagcattcca tgtccttgga 480
cgacaacaca cgacagggat cccggccg 508

<210> 1479
<211> 503
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1479

cttgaggaag cctcttatga agcttctcaa ggaagctaca tgaagctgtc tcggtaaaaa 60
cgctgcccatt acttcgttaa ccgttggatc ttctcgaagg ttggtttgca gcttcacaag 120
acacttttcc atgatctgac cattgggatc tttgagaaga tgtctggagt atgcgtgacg 180
tttccgttcc tgagagcatt gctcacctgt gcgttttgag ccttgtagtc caagtagcta 240
aggaaaaacg ccattntctt ctcttctttt ctccaaaac catttaatta atcaattgaa 300
atattgatcc tagggttcgt ccctttcatt nntgttaaaa ctttctatta ttctgcacaa 360
caaggaaaca taaagctttg ggatcgatcg tgcgcccatt ttgaggatgg caatggattt 420
gcaccctttg gtatgtgacc aagtgaaact ttnccttgatt aaagtcatag agtgatgcc 480
agggtctgtc aatcccactg aat 503

<210> 1480
<211> 168
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1480

agcttcttag tctcagatga tgcagctgag tttgtagcta cctcatgcac tcctctaattg 60
actatagcat catttctggc gctaaactgc tgggagttag aagccatctt ctcaatgaaa 120
ttctggcct caacacgagc cnnaccacca agggctccac ctaccggc 168

<210> 1481
<211> 522
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1481

gctctgacat catnacgaac aagacctagc tgggtgccaga gtaggcgcag atcctttttc 60
ctttcagctg acctaaagcg aatgtataca cccactctt ccgcatata taggaacatg 120
acatgatcaa atctcctcgc ctcaaattag aaatatcttt gaacaccaat cgtggatctc 180
tcatttgaga ttatagcact acctcggagc ctatcattcg ctacttgaac attcgctacc 240
aattaaattt gacccccata tatcacagac ctacagact ctcgacggat aacattcggg 300
agtaagacct atgcctgtgg agaaaaaaca atatgcacta tttaaaggaa gtaagacttg 360
atttcaatca ccatacagcc ttttttaaca atcttcactc agaagtcttt atgaaccccg 420

<210> 1484
<211> 520
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1484

cgcccgttgn atcgatccat ctacagaccg cgatcntaga gtcaccccg cgcattgcaag 60
gcttgctcta cagtcttgct ntatgattag ggaattctat ttagcacata acaaacaggt 120
aataaaattt tgccccacca aaaagagggtt gcacttgaac tcaacatagt agctacaact 180
aattctgtaa aagttgtatt ctttctttca gctttactgt tcatttcagg tgaatatgga 240
gcagacgtct catgtatgat tccatgcaaa ttataaaact cattaaacaa actagaatca 300
tactttgtgc ctctatcact tcgaagtttc ttaattctct tattgaattg attgtcaatt 360
tctgttacat ataacttaaa catgtcaagc gcttcactnt ttattttcat aagatatata 420
tatgtataat cagagcagtc atcaataaaa gtgataaaat atcgttttcc atttctggga 480
acgttccatc aattcacgat atcagaatgt ataaatgcan 520

<210> 1485
<211> 76
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1485

ntcttggaag agatgggacc aacagctttt cgtccgcaga attcgcccc atctttcggc 60
aatacatccc gaagat 76

<210> 1486
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 1486

aacatcttat atgttctatg agttaatgac ggctgtatca ctgcatgggt gtatgggtgtt 60
 aattcattga ttttataatg aattgggttg gttcaagaac gaattgggtgt cttgcactct 120
 atgggacgat tattgtgtcc aatttctgga atatttggat taacatgaga atgaagggcc 180
 tattattgta ttgttgacca atgccagaat taaagaacgc cagggtatac tatgatatat 240
 agttagttgg ttttcatctt cattggatcc aacttatgct ctcatttctg agtgggttcag 300
 gatcatattc atgctctgtt agcaattctt tgaatgcttc taaatttgct tttactgagc 360
 catgttgcta actgatcact tcaatatatg ttttgccctc tattgtacaa ttaaactctgc 420
 tctttccctc tggtt 435

<210> 1487
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1487

ctagataatg tgntaat tttt aaggatgtgc gaaataaggc actggccatt tagaaagaaa 60
 aactgcccc tcgctgttg tctcgtgagg gttatgaata tctagaaaac aagttgatgg 120
 aggagaagaa aaagaaacaa ttgtaggaag cagctcaatc cgaaagcact gacaccatca 180
 ttgatcctcc accttccatc agacgacacg tgaaatggaa gatgacccgc accaagaaaa 240
 ctgggtcanat gacgcctgag gtagcaaagg aaattgctga caagaatgta agtcgctttc 300
 gtttgtcaat tggtggnat tataattatt ggttgatcga gtaaccaata aatttgcttg 360
 tacatgattg ctagagggag aggcctcaca cggaagcttg gtgctatgga catcatgatg 420
 actgactgtt gcattggcaa ccaaacactt ggttgccgt gctgtggact ggagtccact 480
 ac 482

<210> 1488

<211> 517
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1488

agccctgttg tttgatgcga tctcgtgcac cgtgatacta tatagcgcat ctgcgagcgt 60
 gctagcttct gcttcaatat tctatagcta aggggtataa tagagtgaat actggctgct 120
 ccccttaagc acttgtctct ctctgcgatt tgctcgcaca catcgcttcc gtgaagatga 180
 tactcactcg ggcgcttccg aaacgatgac gttacgtttt gtgacgaatt tctcgaaggt 240
 gtcgaccgct cttcgacgat cttcattcga tcatcagtcg ttcacgcagc ttcggcagga 300
 gaatacctcg caccaagctt tgaatgcact ctatgaacgc gtgggtgcggc acatcggtgtg 360
 tctagtatta tattctcaac gcatttctat caatgcctct ttaggcgtgc atatgccatt 420
 gatacttaca ttctcgtgt aacctactag tgaatgaatt acaccgatcc gttgagggta 480
 tactccgcat cttcggaat atgtatactg accgtcn 517

<210> 1489
 <211> 521
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1489

atgtgtatca tgcattacgg acctataaaa ctcagcttgg accatagcag ctcacaatct 60
 aggagtctcg tctcctatct ctatggatat tcaacgttct agaagtgaaa atgataatgg 120
 agcaattttg gagcatactc tcatctcaca caaaactatg acattaatct atactcgctc 180
 aaactggata tacgacgaat actctagcca atcanaattt gactactcta caccgaattt 240
 accctaaaaa tggatcttgc catcactctg gtgactcatt tgctctcttc gcacagacca 300
 agctctccca caatcctaaa tgacattgca aactacgatt aactcactct aacctctgt 360
 ctcaacatgc ccttcgctgg ctagcgaggg cgaggatcac tcgtgctctt gccataagaa 420
 gaaagatgca tggagtcgtc acaacgttga tttgcgaaaa cgtcggcaaa ccgactgaac 480
 tgggtcaaag aaattctagc tcggagttgt ttacgtgag a 521

<210> 1490

<211> 257
 <212> DNA
 <213> Glycine max

<400> 1490

ctgagagttt gcagggcttc tggcacttcc atttaaaccg tagcagccat tgatgacgac 60
 ttctcttgca cttacaaagg ttccgggctt gtccacagc tgctagcctc ttcggttgaca 120
 actctgcaat gggatcatc tggatataga cccattagca cttagtgaga aataaacact 180
 atcattatca tcacagggga aatagaatct atcacacata cccttcgagc ttcactctaaa 240
 aatggagctg actccct 257

<210> 1491
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 1491

tccaagtata atttggattt cattttcaac attagcacat attttaacaa aatgaaaaga 60
 gtaagagtgt gtgacactac atgttcggag caaaaacaat aagtgtcgga aacaagaaat 120
 gaagagcgag tgggtttcaa ttaccgatgc ttgtaaata ataagaagac tcgggttcga 180
 ggatgcctac c 191

<210> 1492
 <211> 517
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1492

gagagttgtt catgagtcgt ctagaccga gatcctctga gtcacgctga cgcagcatg 60
 cttgagtcga gatcggaac tcacaaacga tgggtatggc tcttgcatct ggatgatatt 120
 taccggaccg acatatgact caagtatccc tgccatgaat ttgagaatca atctgctgtt 180
 ggtgagaggg gcatcaacat cggcgagttg atcacgccac aactttgtgt gaatacaata 240
 gctatcaata gacgaaaaat ttcgcaagtt tctcttcaag atgagtagcc caaaaagcct 300
 tgatgtcctg aaacatagat tcgagaccag cccactcccc ttgagccgtg tcgtctatga 360
 gcaacatagc atgaacgaga tcggtggata tagtcccgta tatccattcg agcaccgcgg 420

caaaaatata gacatttgta tn

442

<210> 1495
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1495

ttaaaacgga agaaataaca ccgtattgaa cgatatgtat acgaaagcta agaaacacga 60
aaggaattaa aagtctcgga ttcgaaaact tacctgttga agaacgaaga acgaacgaag 120
aacgaatgaa gaacgacgaa caaccttcac ggattcgctc acagaaacat ctcggaaacg 180
ttacggaagc acctcggtt ggattttctt cacggaaaca attcttttca cccaaaatag 240
ctgatatgca tagctaggcg gatctgggat ccttaccctt tcgcctatth ataggataaa 300
gggtggaggag gttgtcgtcc agctcgccca tgcgagctgc attgnttctc tataccaacc 360
ctgctccaaa tactctaaag gccaaagtcag atttgaaatt ttattgcttc ccatttgtaa 420
gtcaccactc tttcgaataa cgaaagacgg agctttcgag 460

<210> 1496
<211> 510
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1496

cggcctttcc tgtgtcctga gctcggacct tgagtctgaa cggcgcgac tctgttccat 60
tgaaagcgat gaactttttt tcatggggtg acacatttgc tatccctggc ctgtaaatca 120
taaataattat attccgcagg catatgtggt cttaaagacgt atatcgtgtc gatgcatgtc 180
ctctattcac attttacctg tcttaaactc cgcttgctt cgtgagaatc tcagttagtt 240
tgagagcgca agatactgtc gcataataac ggaataatta caatctgact gcattcaaatt 300
gcgatacata acgaaaggta atgtcattgt ggaacgctat ctcgctcagc acaatgaacg 360
acctatagca tccgtaacag ggcattctcc tattaaagta tctatgactg atgctgggtc 420
ccgctctaatt gcggaaggac ttattctaac gggactaaat ttctattgtc ccatcgtggg 480
gaancaaat ccgggtgcta aagtccaacg 510

<210> 1497
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 1497

aagatctttg gatgccgtca gaaattttat gactatgagt gtgagtattt ggtacttgtg 60
 aattcattac tcttctatgt agaaatttat tgatttacac cccttgcaaa ctcagcattt 120
 gttacacaaa gcttaaaatt cagagagaac gcaccttgct ctatgtatta ttaaattcgc 180
 ttcacaaccc cttgctaact cagcacgctg caagccataa tgcattcatg tgatatattg 240
 ccgtgcgaca acaacaacat 260

<210> 1498
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1498

tggtcaaatt tcggtttacc aattatacat tatgaaaact catttattga ccattataaa 60
 tatagtacaa gtttatctag caataacttc aaaagctcca tttaaacaat tatatggaca 120
 aaaaaacaca aaacgaacaa gctgtaacac aatcataatt gctatttggt aatcacactt 180
 aaacaaaaga atagctaggc aaactaaaat caccaacaat cacggacaac taacacctac 240
 catttggtaa acaataaata atcttgcat tttattcaat aaataaacac ttaaaattgt 300
 ttctgaatt tgaataaata aattcactaa ggtaatgttg tcatatctat atcggtcatc 360
 gactcgatta agatactaag ttactaaatc atgcatcaac ccaatgaatc actaattgac 420
 tcccatgatt caacctatat tanaaaattc taaataattt cataacct 468

<210> 1499
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 1499

tggccccaca tagagaatgg ccaaggtgta tccatgacgt tcaaaggat ggtggagcat 60

taacattatc agtgaaggcc tgacacttat ggcatttcct cacatggatg caacaattgc 120
tctccatagt gagctagtaa taccagttc tcagaatttt ctaggccatg gcatgtccat 180
tggtatgcgt tccaaaggat cttttatgca cctctactag aatttgctca gcccctttag 240
catccatata ccgaagtagt accatgtcat ggttattctt gtataggata ttcccactca 300
ggaagaagtc ggtcgccaac cttcacaaca ttcttttatac gttgtcagag gcctcccgtg 360
ggcatttcct gtct 374

<210> 1500
<211> 380
<212> DNA
<213> Glycine max

<400> 1500

ttaactcgga ggtccgattc aagcgcataa tatatcgaga cgctcgaaat taaccaacgg 60
aagctctcga gaaattcaaa tggtcataac ttttaactcg gaggtccgat tcatgcgcat 120
aatatatcga gacgctcgaa attgaacaac ggaagctctc gagaaattca aatggtcata 180
acttttcaca cggaggtctg attcagggcg ataatatatc gagaccctct aaatttaaca 240
acggaagctc tcgagaaata ccaatgggtca taacttttca ctgggatgtc cgattcaggc 300
gcatcatata ttgagacgct ccagattgaa caacggaagc tcttcagaaa ttcagatggg 360
cataactttt cactcggatg 380

<210> 1501
<211> 366
<212> DNA
<213> Glycine max

<400> 1501

catggagtca agtttaagta tggaagtaac catcttgcaa atattggggc aaaagatgga 60
tcgtgttaca tcgttgcttc gtctactgcc aaacacattt agggccgctc atgtccctgt 120
tacttccagt ttcaccttga cgaagatgtc atggaccatg ttgaaaatct aaattgattc 180
aaccatata cctgcgtaaa aattcgcaat acttcagctg tgcattcattc gcatacatcc 240
atgttggtca ttggttgcat tgctcattgc attctttcct tataaaaaaa aagaacttaa 300
tcattgttat aaaaaaaaaa catgatttac ggtgccctca tcgaacctgt gctagagcta 360

<210> 1502
 <211> 164
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1502

gcgtctgtat atgtgatgcg cctgaatcgg acatccgagt gaaaagttat gaccatttga 60
 atttctcgag agctttcgat gtttaattnt gagcgtctct atataatata agcctgaatc 120
 tgacatcagt gtgaaaactt atgaccatan taacttctgg agag 164

<210> 1503
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1503

gtggtaatca gagcacaaga gtttcaagta ggtgctcctt anacctccat taattgtttt 60
 tctttacctt ctcttccatt gttgtttctt cttttttctc catgtatctc ctcacatgtc 120
 ttgttctaaa tgttgtaaac atgattcttt agagtttcca ccgattaaac ttgctataga 180
 agttagattt gattttctat ggttcaaatt tcttgttctt gttcttgaac catgaattgt 240
 gttgagttta ggttcctttg agttttgtct tgttattttt tgtggctgaa acctaaacca 300
 taaaattctt acaaaaatat taaagtagaa gaaaacctca taaatctaga gtgactttgt 360
 cacctattgt agttttgtca tagaagtcac gtctagtcac g 401

<210> 1504
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1504

actaagctng tttattctga tatgaagcaa cgtattttaa atcatggatt agatagtaac 60
 tgctaacaaa aagataaac cactaacaga tcatgactag agaataggat caaaactgct 120
 ttatctatc agtcaacatg acttttattt ttcttaaaaa atagcaaaag aatcttatct 180

actatagttt gttagacagt ttcaacagtc acatcttaac aattcaaaac aaaattgtga 240
 taaactcatc ccttacatct aagtgactcc catgtgtagt ccaacagtag tagtggcatc 300
 tctagtgtgt tcttaagttt cctcaaactt ttgctttggt tgttctgcta nggttttcaa 360
 gcattaaaga gtagcagaag ggatttgagc ctccatttct ctatctctat ngcgaggagac 420
 gttctctctc cacata 436

<210> 1505
 <211> 216
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1505

taaagggatg cccacatta tttccacgac acanatgcan aaatgatgat ttgtgaaatt 60
 tatgcaaaac tggatcatgca tgcacctatg tggacgctca agtgtcaaaa ttttatggtc 120
 atgtgatgct agggctcang attcatttcc tctatttttaa atcaacccaa tgtttccaaa 180
 atatgttctt ttattcaatt gtgcattcat ccgagt 216

<210> 1506
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 1506

tcaagaaaaa gatggcctca gcaaattcct tatttccaga atggaattct atcaatagac 60
 ctccaatctt taatggagag gggtaccact actggaaaac ccgaatgcaa atttttatcg 120
 aggcaataga tctaaatata tgggaagcca ttgaaatagg gccttatata cccaccacag 180
 tagaaagagt ttcaatagat ggtagtcat caagtgaaag cataaccata gaaaaaccta 240
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctataa gccaaaaaca 300
 taataacatc tgccctagga atggatgaat atttcagagt ttcaaattgc aagagtgcta 360
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420
 ggataaatgc actaactcat gagtatgaat ta 452

<210> 1507

<211> 323
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1507

tgattctggt attttaagag agaaatttct tttgttgat gcagaccagc agaatcccaa 60
 gatgtcgaag aacttgaaaa gagattggct tctcttctaa gaatttaaatt ctctgctaca 120
 gcctgtaccc atatatatgt ttcttaattgt acaaatcatt atatatatca atggagagat 180
 tgtactattg gcacctcttt taattaccaa ttttatgctg tgatgtgtgt ttggatataa 240
 agaactagta aaaatagttt tagactggaa tatatattac tatccacac atttattata 300
 tatactatat agcaatggag aga 323

<210> 1508
 <211> 262
 <212> DNA
 <213> Glycine max
 <400> 1508

catcacccta ttatcaacag tgtatgtagg gttttcttcg acccaggaca atgtgggttc 60
 tgtgggggttc cagcgacgac aatatgggtt ttccggcact gtaggggggtt ctgtgggttc 120
 caaagaggac aacgtggata ctccggcagt gtaggggggtt ctgtgggttc aactgacgac 180
 aatgtgggtg tcgaggagc ggcttccgac agatttcatt cgaggaggata tagaggagcg 240
 atttcattga ggaggatgac aa 262

<210> 1509
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1509

cagcattcaa tgctgagcat ctctatatgt cacgggactt gatcagacat ccgagttata 60
 agttattgtc gttcgaattt gctcaaagca tcaacactca attatgagcg tctagatatg 120
 tgacaggact caatcagaca tcctagtaac aagttcattg cgattcgaat tggnacacag 180
 cttcatcatc tcatttttaa catcgtaata taatacagga ctaaatcaaa catcctagta 240

gaaagttata tgctgtanga ctatgctcag agcatcgtac attcgattac gagcgtatca 300
 atatatgaca gggactcact aatacatccg actaaataga tattgtcgtt tgatgtggtg 360
 tgagcttctc atttaatatc agcatctcta tgtactgtan cattcgacat cgattaaagc 420
 tttgtcgtga tttgtacagc g 441

<210> 1510
 <211> 333
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1510

ctaagcttat ccaggggaga cggaccatct caagtgcctng aaagaatcaa tgacaatgct 60
 taaaaagttg agctgcccgg tgagtataat gttagttcca ccttcaatgt ctctgattta 120
 tctctttttg atgcagatgg agaatccgat ttgaggacaa atccttctca agagggagag 180
 aatgatgagg acatgaccaa gagcaagggc aaggatccac ttgaaggact tggaggacct 240
 atgacaaggg ctagagcaag gaaagccaat gaagctcttc aacaagtgtt gtccatacta 300
 tttgaataca agcccaagtt tcaaggagaa aag 333

<210> 1511
 <211> 289
 <212> DNA
 <213> Glycine max

<400> 1511

tcagccccct taggcacttc tctctctctc tctcgaaata gatgaggaaa attagttccg 60
 tgaagaaaat tcaagccgag gcgcttccgt aacatttccg taacgtttcc gtgagtaatt 120
 actcgaagat cctcgaccgt tcttcaagat tcatcgtttg ttcttcgttt tcttcagtct 180
 tcaacgggta agtacctcaa accaagcttt tcatttcatt ctatgtaccc cgggtgggtcc 240
 acattgtgtt tcatgtattt atattctcgt tatcatttac tttttatac 289

<210> 1512
 <211> 175
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 1512

tattcanatc attctcatac attcattttca tgcanaacaa tccactgcat atcattttca 60
atcaattcac tattcaaaca cgctttatgt acaagcaaac aactcanagt gcttgaaatt 120
aaataactga aattaaaata actgaaatat gacaacgaaa tcagctggaa atata 175

<210> 1513

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1513

gctaactcat ccaacatggc aagttcaaca tgctttcaac ttattttcttc acaaataacc 60
atcatgaagc agaaacctag caaaactacc catcatatct cccaaaaccc catacccacg 120
aaaatcaaga gagaaagaag tccacccaaa cctgaaattt ctaggtccca cacgtagaga 180
tgcgcttcac gactccgaaa atgccctcct ttcgcgattt ggagcagaaa tgatggccaa 240
aggttggagc tttgttggag cttcaatggg ggaggaagaa gaaggagaat agcaacgtga 300
gggagaggga gagagcttct gaaaatgtgg ggctgagtga ggagagagag agttgctttt 360
tagttctaaa aaggctnttt cctcttttat tattatttta ttaagctat gccacatg 418

<210> 1514

<211> 441

<212> DNA

<213> Glycine max

<400> 1514

gtggtgaagca acgcttatgt cgagtctccc cagtgaacc ccgctcatct agtgttgcac 60
tgacggtagc ccatgtaatg ttggggcatg ggtatgagcc cagaaggggt ttaggtcgga 120
gcgacaatga tgtggcgagc ttggtggagt tcaaagagaa ccgtggaagg ttcgggctag 180
gatataagcc tacacgcgtc aacgtaagga gaagtgcctt agaaagaagg ggccgaagca 240
tgggccaaca gcaaggaccg caagtggaag agactccctt atatcacatc aatgaaagct 300
tcatcagcac aggctggatg cgtgaagggc ggatcgccat gatcaacgat gaagtccttc 360
aagagcaatc aaactgggtg cggccatgcc cttctgacgt cgggttggga aactagaaaa 420
ttatcgaaca acccgaaatt t 441

<210> 1515
 <211> 374
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1515

 ctcagcttga cataaagtta agacaaagag ganatcttgt tacctaattg tacactatta 60
 gagatctctt gtagatgttg atatttctac aacacaaatga gttggagaaa cttcactcac 120
 ttgataattg tcacacatat atgaaaaaat tgaactatcc tcaacaataa aagtgaaaaa 180
 gagaaagata actatggaga gtatgtaaca gtaaaatgaa taaattactt gggctaatag 240
 gaatgatcta aaaaactggg cattatctgt tccaattaag ttaactgtga aaatgttgct 300
 aattntgaaa gaaaaatgag caagcaaaca aaaagaaaga agaaaaaatg cttaactgac 360
 ctctgaaaag cttt 374

<210> 1516
 <211> 181
 <212> DNA
 <213> Glycine max

 <400> 1516

 gctgaatatc gcacaaacca acaaataacg tatggagctg gaacgtgatc ttcctccctc 60
 tcttgcaaac agatgccttt ttcagcactt taaagagaac agtagggaca acatgaacaa 120
 ggcataatac gacatcttag gaatcatcgg ggatagtaat caaagagggc cgggtatcct 180
 c 181

<210> 1517
 <211> 322
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1517

 caatacctca gtttttctca ccaagtaaaa atggaccatt ntaaggcca acgccttata 60
 aggaccacct tccaaataaa aagaatcggt tgattcaccc ttttgaaaga actacgtagg 120
 tctgatttcc tcttcgatgg agggtagcta ggagcaaggg ccccgctttt gtcgacctca 180

aaaataaaaa agaaataaaa gtttagatac gcaatttcac acaattctaa tttaaggctg 240
 ttgtcctttg ggacaaatgt gagagggtgct aataccttcc tcatacgtaa atacaactcc 300
 cgaatctaga atattcttca tg 322

<210> 1518
 <211> 199
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1518

atgtctcatg tataggtatc aattcaatcg atataaaana tctttgttaa ccacagtaaa 60
 caattaggta ctggatcatat attaaaaatt gaggttgtaa tcttaaccat caatttttat 120
 tataatctaa tgattaanat caattcttct catttttagat ntattctcat ttgaaacatc 180
 tcctatatat gttatgtgt 199

<210> 1519
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1519

tatttggtcta ttttagaagt tagaagagat cctacgaagt tgcaatagac ttttaatatc 60
 tcgggctctg atggatttga ctctatggag ggtcaaagat tttcgggagg tatcattatt 120
 gcttgaaaa agaataatgt taaccttgga agttgctcag acgcattttc aattcttgca 180
 tgtaagatt atcttgcaag gaggtggtat tttgaggttt actcctctct acactagtcc 240
 taatgagggg aacattctct aatatggagt gcgcttcttg atatagctac ttccatgaat 300
 gatagttgga tgattggagg tgacttcaat gatatagtgt gtaatgctaa gaagaaagga 360
 ggagcattag tggttcttac gaaatgtcag atatttagag acagaatcaa cagagccaag 420
 cttattgacc tanactct 438

<210> 1520
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1520

gcttcttgaa naacttcctt gagaagctng agcttatcta catcacaccc ctctcataac 60
 taagctcacc tccttgagaa gcttccttaa gaagattcct aaagaagcta gagcttagct 120
 acacatacct ttctaatagc taagctcacc tccttgagat gagaagctag aacttagcta 180
 cacacccctt ataatagcta agctcacccn catgacaaaa accatgataa tacaaaaaaa 240
 ggtccttact acaaagacta ctcataatgc cccgaaatac aaggctaana ccctatacta 300

<210> 1521
 <211> 225
 <212> DNA
 <213> Glycine max

<400> 1521
 aggaaaaagg agaagggaaa tttccaatcc aagaggaagc caaaaaaggg agagaaggaa 60
 aatttccaat caaaggaaaa aagagaggaa aggaaattcc caatcacaga gtgtgagaaa 120
 gtaaaaaagg aagagagaaa aggaaagaga gtcctgatc aacgatcgaa agaaaacaga 180
 agatatatgc agaaaggctt ttggaccaca ccatatctga acata 225

<210> 1522
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1522

tgcttctata gatggtaggg accaagcaag gaaatattca catccttcaa ggtccacta 60
 tgacaggatc aactatttca caatatgaga gccatgcgtc caatgggtca tccaatgata 120
 attctctatg gcatctgtgt ctgggcccac aagtgaaaac ataataaaag ttttgagcaa 180
 gcgaggctta cttggaaaac ataaggttga acctcttcag ttttgtgagc attatgtcta 240
 agggaaagtaa cataggacaa aatttctaaa ggttggtcac actacaaagg gcattttgga 300
 ctatgntcca tttgactact ggggggactt tgagagttcc atcactgaga ggggaaagggt 360
 atttcctctn catcatcaat gnatactcca caatgacatg ggtattcatg atgaagtaga 420
 aatctgaagc ttaccaattt t 441

<210> 1523
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 1523

tgacattgcg ggttgattgt agccttagtt tctactgtagt tattagtcaa ttcaattatg 60
 agagagaaat cccatagaga aacgtccgat tgattttttt tgcgtttatt ttactaaaag 120
 ggtatttttt gattattata ttattatttt acctcttttt tgatttccaa cgtggttact 180
 gcacgaccga gcggtcagat gtcattgtaa ctgacattaa cggatattgc aaatcaaagt 240
 atcgggtgaag atttagttta tttttttatt acgcgagaaa ttacttaaatt aaatgactgt 300
 ggcacgttga attgtggtcc ggcaagtta tgattctaga atatatgtac acaagacaaa 360
 tggtgaccag cacgggtaca tagaatgaa 389

<210> 1524
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1524

aaatttacia tatatcatgc atcaaattcta tgcttttata aattttcctg cttcatctca 60
 taagaaaata ttcatgttat attagataaa ataacatatt caataaatta gtttaagtctc 120
 atgttcattc tcctaagtta agcgtaaatt cttctttgct ttttttggtt atattaaaaa 180
 aaattgctga caaaaaaagt ataaattctc ctacttgatt caataaaaaa tgttcatgcc 240
 aagaatttga tttaaaaatt ttttttttag gttaaaaaata taaaattgta ataaaaaagt 300
 tctttaaaatg ccaaaactat tcaaataatt aatgtaaagc tttttgcca agtttgtaag 360
 ataatggaac attntacaat anatcatgta ttatatgggt ttttttagtt aca 413

<210> 1525
 <211> 219
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1525

accaccatc cactgttgcc cacctccatc tgagctcacg tactcccacg tagcccatat 60
 ccttgtttct ctcaacaccg ggtccacatc aatcctccca agcttccaca acatccaagc 120
 anaacaacat tcataccgca caagctatca cagccaagca aaacagagca tatgcnghaa 180
 aactctgcan aacaccaacc aaatcacaac tnttctcac 219

<210> 1526
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1526

caataatcat atttccttat gttttccaga gaattaattn tgaatacaag gtcatttta 60
 tttgatgttc tectataatt nttatttccc gtttcatagc cttgtagtca ttgttaaaat 120
 ggaattatga gaaaattaag tgcaacatcc aactagaaca taatgcatgc ctcccatcat 180
 catgtttgta tgaaagcaac aaatgaagtg gcaaaaacaa taatgttcca atcctttctg 240
 ttaacagtaa atatatgaat acattcacat cncctacaaa tgattttatc aagaattccc 300
 gggtggacta ctgagacagc atgctcatta aacttctcat caagcctgta ctntgtcact 360
 tgcaatatga gaaacacggt cagagtcatt cttcttcttt at 402

<210> 1527
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1527

gggtgttaca tgataaaaaa atgtattgtg actcattttg cattatatac tatntatgat 60
 aacttttatt gggtatgggt caaagatcat gtgtgtctct cgatcaactc gatcaaata 120
 taatcttggt tatgacatgt gactgtaatt gaacaaaaa aattaaataa aaattatttc 180
 actaaataaa ttgttctcca aatataaaca agtgatgcct tacaccttgc gtcaatcata 240
 tgaattaaga tataatgttt atgatacttc tagcaatgta ccaaagtgtc ccttattctc 300
 ttgtcctttg agctattctt aaattctttn taattatgta ttcataataa ttntaaactt 360
 tttcatcttt tgatatataa ttgaaatct atactgatta atggactata tatatatata 420

tatatatata tataanttta acttc

445

<210> 1528
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1528

taagacaact tgttgtaatc aattacaatg aggctgtaat ctataaaaac aaagagtttt 60
tgcctttgaa ttaatttttc taacttagaa aattttctca aaataaacca tgatgatgca 120
tgatgaaata cagatatcaa atgtactaag atgcaccaac caagataaca accaatacaa 180
atgccactca agaaagttgg gcatgtaaaa gccaaccaaa acttcttcag aacttcttcg 240
agcttttcct tgagcttcaa gctttagcct ttgggtagtt caccatgttg ctcatgttgc 300
atggtcggca agtgtaccgg atgcacaag tagtataaaa cagtaagaac cgagtatcga 360
actctcgng aacttgtgtt atctggcaag ctat 394

<210> 1529
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1529

tgtgtaaccc accatctttt catagtatat tactgttnat gtgtctacca tcacgattat 60
catctccctt tccatcattg ggagtgcac ttgggctgcc agatccctcc acctttgggt 120
gtattctttg aaagattcgt gccccttttt gcacatattt tgtagttgca tcgtagaatg 180
gactcgagaa ccattaggtc cttccaagaa tgcactcggg aaggttccaa gttagtgtac 240
caagtatgag ctaccccagt aagactttct tagaagaaat gtatcaacaa ttcctcatct 300
tttgggtatg ccccatctt cgcacaatac atcttttagat ggttcttggg gcaagtagtc 360
cctttgtact tgtcaaagtc cagcgccttg aactcgggaa tgaccacgtt cgggtactat 420
gaacaactct tctatgtcag taaaggcata atct 454

<210> 1530
<211> 194

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1530

actaactgac ganaagagaa taacatactt ttcttggtat aattcaagag tcgatatgaa 60
agcatcttan aattcanatt ataaccagaa atgaatgtga tttaacaata tacacaacca 120
attcttgntg aaacagaatg cttaatagaa aatgaatatt gtctacacgg agtccatctt 180
aatcatacta tgag 194

<210> 1531
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1531

agcagcaaga ggtcttgcaa agattcatgc ttagtacagt gcagccaaag tgcctcacgg 60
gaatgtgaaa tcctccaacg tgcttctaga caagaacggg gttgcatgca tctccgattn 120
tggtgtatca ctctattaa acccggttca cgccattgcc cgattgggag ggtacagggc 180
cccgagcaaa gaacagaaca agaggctatc tcagcaggct gatgtgtata gtttcggagt 240
attgttgtaa gaagttctca caggaagagc tccttcatcg cagtaccctt caccggctcg 300
tccccgaatg gaggtagagc cggaacaggc tgcggtggac cttcccaaatt ggggttcgctc 360
ggtggtgaga gaagagtgga ctgcagaggt ttttgatc 398

<210> 1532
<211> 154
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1532

atgggaagaa gacaatntat acacggcacc gtaggtgttt aanacattat caccctatc 60
gatgattgaa gaaagcattt aatggtagcc aagagactaa agaaccccca gaaccgtag 120
ctccccatga agtgtatgat cgggtgaaag acat 154

<210> 1533

<211> 394
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1533

ngaagagaga caacaatggt ggtgaagaaa atgaataaga tacgtggagg aagaaagaga 60
 gagctgtgct agaagtttct agagaaagag agagaagatt tggcttttaa aatggttttt 120
 cttttctttt tcattttctt tttaaaagca attccacatg tcatttttta aattggagca 180
 aaaagggccc acctttacct ttgacttgac cacatactca gctataaaaag aagaaaaaaa 240
 tcggaccttt ttggatgctg aaatcctgct tcggtttgcy tgccgtctct cccgttccaa 300
 ttcttcgcgt atgtttgcac ccgtcggngc ccgttttcaa agataggaaa tatatatata 360
 tatatcataa cgcttagaat gagaccctga gcgt 394

<210> 1534
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 1534

tggccaaatg caacacaatt tgttttcctt taatccatat ctacttatga tcaatcataa 60
 gagcattggt tagggacctc atccaatgaa agtattcaaa ctttcggatt gatgaaacga 120
 gctttcttga ctttgtatgg aaggcataca aatcctacaa tgttcaagga tgagggtgctt 180
 atgtgggtcaa agagagactc atgctcctaa aaaaaatcat caatacgtgg agtgtggaca 240
 aagttgggag tcatcaaaca caagtcgaca agatgagggc caatataact tctttggatg 300
 ttggaagaat ctcatatgag aaggcgtgtg a 331

<210> 1535
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1535

tgttcgaca tcgtccgcgt ctatgatatc cacttgacat gggttgaact agaggagacc 60
 ttcaatccta aaacgcaacg tggcggacaa aagtgggtag ttaacttgaa tgaccattat 120

tgtcaatgcg gaaagtattc tgctattcac tatccatgtc cacacattat tgctgcttgt 180
 ggttacgtga gcatgaatta cttccaatat gtagatgttg tttacacaaa tgagcacatc 240
 ttataagctt atttcgcgca atgggtggcct cttngaatg aagcggctat tcttcctttt 300
 gatgatccat ggacacttat cctgatcca agtataat 338

<210> 1536
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1536

aaaatttaca atatatcatg catcaaatct atgcttttat aaattttcct gcttcatctc 60
 ataagaaaat attcatgtta tattagataa aataacatat tcaataaatt agttaagtct 120
 catgttcatt ctctaagtt aagcgtaaatt tcttctttgc tttttttggt tatattaaaa 180
 aaaattgctg acaaaaaaag tataaattct cctacttgat tcaataaaaa atgttcatgc 240
 caagaatttg atttaaaaat ttatttttta gggttaaaaat ataaaactgt aataaaaaag 300
 ttnttttaaat gccaaaacta ttcaaataat taat 334

<210> 1537
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1537

tttcaacatt tgagatctca natggaatat ganaatggag ttgttagtgg gagaggaagc 60
 angtggaggc ggtggcgggc gtgggtgtgg atgcgttcag aaatgggaaa ttgggtgtga 120
 gtgtgtgaag gatgagagag ctgtgccgcg agagagattg ggagagcatg caaaaattga 180
 gggaattgaa agcgtaaattg aaaaaggttt tcaaagacaa tttttcaccg tcttgaaaa 240
 cttactttta aagacgattt ttgaaaatca tcttttanaa ctttctttca nagacaattt 300
 ttgcaaaaac ggcttacaaa aattgaactt aatttcaaaa atgtcactgc ttatntttta 360
 cattcgattt tttgaanact gacttggatt aatgatgtta aacatgattt ttactagtga 420
 gggagcactt tcatgacaa 439

<210> 1538
 <211> 183
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1538

aatgaagagg gtgagaatga aggagaaacc catgctgcga ctatcggtcc tacatggcca 60
 agtttccac caatccaaca atgtcattac tcagccaata acaaccattc tccttatcca 120
 ccaccagnt atccacaaag tccatcccta aatcaacaac aaaaccacc taccacacaa 180
 cca 183

<210> 1539
 <211> 306
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1539

gagagngggg agcacganna tgaaggaata aaagaggag agaagtggaa ctttgaagta 60
 tgtctcagaa gactctcatt catcaaagtt acaacaagtg ttacacatgc ttctatttat 120
 agactaggta gcttccttga gaagctttct tgagaaaatg atgcatcttg agtacagagg 180
 agaaaactct tagcggatga tggatcgctt agcactgcta tggccgaaag gaattgggct 240
 tagctggcat gagtttcgct ttgctcaatg aaaccaatt ctaaccgcat ggaaatgagc 300
 ttagcc 306

<210> 1540
 <211> 104
 <212> DNA
 <213> Glycine max

<400> 1540

accattgaag gacccattg aagctcaacg atacagctc catagaagcc ccacaagcaa 60
 gcttacatca agtggtatca gagcacaaga gcttcttggtg tcga 104

<210> 1541
 <211> 345
 <212> DNA

<213> Glycine max

<400> 1541

gagtagtgtc ccactggtaa aactaacttt ccaaattttt gccttcgcag gaaatggccc 60
cgaggaagct tgcctcaaag aggtccagga aggacaaggc agccgaagga actagttccg 120
ctccggagta tgacagtcac cgcttttagga gcgctgtaca ccagcagcgc ttcgaggcca 180
tcaagggatg gtcgtttctc cgggagcgac gcgtccagct cagggacgac gagtatactg 240
atttcagga ggaaatagct ctacggagtt ttaaaagact ggctaagaat ttggtaaaac 300
ataagcactt agacaatgaa ggaaagctgg agttgctgac atgat 345

<210> 1542

<211> 233

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1542

attcaatttg ggcaaaattg gatgagggaa agtgtgattt cgaaaatttg cactttatgc 60
agaattttgc tgtcaaatac gtgcagcaga attatggctt tgtgcagaaa gtgttggtgta 120
tttgctggct gtggaaagag tagtacagat tgggttctgg atgttntcta gcagatccca 180
acggtcataa tgtagatnta tgtgctagag acttcccagt aaaattttga gtc 233

<210> 1543

<211> 304

<212> DNA

<213> Glycine max

<400> 1543

atctaggtcc ttatatggat ggagctcaac cttgtctctc acttacatat taagttcact 60
aaggaaccta gcaataacttg ttctttctc cttcctaagt ccagctctca aatgagtag 120
ttccatttgt tgctataact cttcaacact cacactccct tgtctaagcc tttggagctt 180
gtccataagc tccctttcag agtaggaggg gatgtgcctc ttcctaaggg cactattcaa 240
gacaatccta tacctactag aggatcccca tgaatccttc tttccctagt gatgcaatcc 300
tacc 304

<210> 1544
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1544

ctcagcttag gtttgtgctg atgcatatat catggatcat ctaatatgta tcaactgtact 60
 tggagngaga ctgtataata tgccagaata aaacgttgct ttgaatctta acccaatgat 120
 atttactttt ctcaactgcac atcaaaaactg gtatctatat ttggcatgga gtatcttcac 180
 ttaccataa taagcatttt ttcattaata gcttgaagct ggccaatcca aattgaagtc 240
 gagattgcaa gatgaagaac aagctaaagc agcattgatg ggaagaattc agcgactaac 300
 caaattaatc ttagtttcta caaagaatgt aatgtcatca agca 344

<210> 1545
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 1545

gatgatgaca acagggacat gcagatatcc tcatagctag ggtccctaac cctagctatg 60
 gtggtaaaat ggtaaattat ataataaact cccctcacct atcgtgagct accctgcggg 120
 ttccctcgta catcacttga agattccggt ttcttctctg ctcttcggat ccacgcaagc 180
 ctctaccatg ccaaaacgaa ggagacttaa tatggatttt cataaacaac gctaaccaca 240
 atgctctggg cagacacca 260

<210> 1546
 <211> 123
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1546

caatcatctn ntaatcatct atctttcaat cttntttcat catcatcctt caacaatctt 60
 tcaatatctt ctttcatctc tntcaacact ttcaacagaa cttcttactc atttatcttc 120
 gtc 123

<210> 1547
 <211> 166
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1547

atgaagcaac aatgatgtaa gctccattgg agcttgtang cctaggatct ttttcatcaa 60
 tggattcctt tgcttcttgg aagatgaatg gcagcggaaat ggagaaagga agagagagag 120
 gagacgccac ttcaaggaga agatgagtct agaagaagct caccac 166

<210> 1548
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1548

tcctcgngc catttctgc gaaggcaaac atttggagag ttagttttac caagaaatgc 60
 tattcttaaa acgaaaatgg catacgacct cccccaataa cacaaacatc aatgtaaatt 120
 tagagcgaac tcatgcgcat acttcctttc gaacattcac tcgcaccaga tattcttcta 180
 actaagaaaa atgcacccag gcacaatcaa ggcaccttcg ttacctagat cacttatatg 240
 tacttccaag gtgtatttgc tacctacatc acatgcactt cctttgctaa atttacatac 300
 atgcatactc aaagcatttt ggctacaaa aattgcatac gtgcacattc tggattttct 360
 aatacctata catatacaaa ctttgtgatg aatcttggct acctacacaa taagggtgcta 420
 catttcat 428

<210> 1549
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1549

tcttagtctc acctgatgaa ttcattggcta ctcatgcac tcttctaattg acaatagcat 60
 cacttctgac actaaattgc tgggagtttg aagccatctt ctcaattaaa tttctggctt 120
 cagcaggggt catgtctcca agggctccac cactggcagc atctatcata cctctcttca 180

tgttgctaag tccttcataa aaatattgga gaagaagctg ctctgaaatc tgggtggttaag 240
 ggaaactagc acataatttc tttaatctct cccagtatcc atacaggctc tctccacaga 300
 gttgtctaata acctganata tcctttctga tggctgtggt cctggaagca gggaaaaaaaa 360
 tatctaagaa tactctcttg aggccattcc agctcgtgat 400

<210> 1550
 <211> 349
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1550

tgtgtcacga ttcactgtga cagtcaaagt gccattcact tagcaaata ccaaattgtac 60
 catgagagga caaagcacat agatgtaaaa ctacacttca tcagagatgt gattgaatct 120
 aagaagggtga aggtggaaaa ggtttcaaca gaagaaaacc cagctgatat gttcacaaag 180
 tcctctctta gtgtcaagtt caagcactgt ctgaacttga tcaatttcga agatgcctaa 240
 agctgattgg tagaagtga gccctgaatc acaagataga cactngctaa tttggagtca 300
 aggtggagat ttgtggtgtg tgactcanaa tcacaattgg cacaagtga 349

<210> 1551
 <211> 325
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1551

ntactgaaga aagctagggg tgactcacct tgcattagta ctatgcccac ggccgtgccg 60
 gaggcgtccg tttcgagtgt gaatggacgg gaaaaatctg gcagagctag cactgggtgcc 120
 tgtgtcatgg cacgcttaag agagtcaaac gcaagttgag aatcctcgcc ccaatggaaa 180
 ttatccttct ggaggagtga agttaacagc gccgcaaagg cagcataatc acggatgaac 240
 ttgcggtaga agtccgttaa acccaaaaaa ccacgcacag attgggttgt catgggtgta 300
 ggccaattca ccatagcttc tatct 325

<210> 1552
 <211> 362
 <212> DNA

<213> Glycine max
 <400> 1552

cttatcatct gaaaacgtga aacatgctat tgtatgttct tcacgttata tgcataagatt 60
 atgctcgact agttggtttt ctggcgacat tcaatgatat cgaagtaata ttacaaagtt 120
 ctctcctggt gcttgcatat aatgtgtgct gctgcccttt gtgaatacaa caattaatgt 180
 cctttgtcca atatttctct tagggtaatt agggattatg catgtgcggt atccaaaagt 240
 atactaaact attcagactt tcatattttg ctaagataat taatgaatct taacttctgc 300
 tgagaatcat gagataatcc atggttgata ttacatacac atgcataaca aatcatagat 360
 at 362

<210> 1553
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1553

tatcccacaa gactntcagt gttgtctcct ttaacacatt gtacttgatc tcgagagcaa 60
 gagttaatca aattgtgttc acagctttcc tttgtatttg agcatattct ctttcaacta 120
 tagtagctga cttttcatct tctaaagcca aatcaatacc ttgctgcact aaaaggtctt 180
 gaatggtaga ctgccaaatc ataaaatttg ttttcccatc aaacaatggg atttcaaact 240
 tttgtgtgtt tectatcata gctttgatgc cacttggttg gaaaactcct ctacacacaa 300
 caaaattacc cacacgtcca aggaatctta gatggaaggg atcctaanaa gtccctctata 360
 gaattttctt tttggctctg gatatagagc taaatagcaa gggttcctaa naattaaaaa 420
 tggttntttt cccctgaatt ntggtagata ataatttta tctcta 466

<210> 1554
 <211> 215
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1554

tcctctaattg actatggcat catttntggc gctaaactgc tgggagttgg aggccatctt 60

ctcaattaaa tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc 120
atctatcata cttctctgca tattactgag tccttcataa aaatattgga gaagaaactg 180
ttctgaaatc tgatgggtggc ggcaactggc acata 215

<210> 1555
<211> 382
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1555

ctcagcttta catatgggag ggcgggcttc ttactttctt gtcccaacgc gagctntgac 60
cactgttctt ccttcccgta atgcttcttt tcatgtccgc ctgagtgggc ttatagccta 120
aaccatactt cccacgattt ccttgggtat ttatcaggct agttatgccg ccgttggtttt 180
tgctaaacc catcccggtt tcataaccgt tccccaacat aactcgggcc atcattaccg 240
ctgcatcgga cagacaaggc tgcccaaaga gggagtccac ggaggaaatg ctgaccacct 300
canaagactg gaaagcagtt tctaacgatt cttctgcggc ttccacataa ggcattggagg 360
atgggcagct taccaagata tc 382

<210> 1556
<211> 474
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1556

actaagcctt taagttatgt ggtggagtgt acaatgtcac acatgaatct tgatatatct 60
ttatccagag aaatctgtaa ctattggatt gtctcatatc tgacccaatc ctcacaaata 120
ttntacccaa actatgttac tgccgactaa aatcactaaa cttagtctta gactatgtag 180
caaaatagta ccaaagactt cacacatcat attaacatat ttcattcttt tttaatattt 240
tatttctaga aaattaaaaa taatgggtgt gtgttgaaat atatgtttct attttatatt 300
aaaaaatgt aaaataagat ttcaattttt atgcttgata taattctttt tacaatgtaa 360
gcaaatcaga aatattaata tgactactta cataatttcc aatgggtattc atataaataa 420
ttctgggttat gtgactntaa tgtaagtaa ttaatttatt ttctttgcat agat 474

<210> 1557
 <211> 209
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1557

tctttctnta cccactcctc acgttgggtt attagggan aacaccataa ctaaacgcgc 60
 cacaaggcat ccctatcgca ccagatccaa atctagaatg atgggtgatc aagaggagac 120
 acaggaacag atgacagccg acatgtcggc tctgatagaa caaatggcct ccatgatgga 180
 ggccatgtta ngaatgatgc agctcatgg 209

<210> 1558
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1558

ctttctctct cctcactcag cccacanaa attntagaca gctctccctc tctctcacgc 60
 agccttcttc ttcttttctc ccatccacca ttgaaacccc aacaaagctc caacctttgg 120
 tactcatttc tgctccaaat cgtgaaagga gagcattttc ggagtcgtga agtgcggtggc 180
 tacgagtggg acttcgaaaa tccaggtttg ggtggacttc tttctctctt aaatttcgtg 240
 ggtatggggg tttgggagat atgatgggtg gttntgttag ttntctgctg tgtgatgatt 300
 atttgtgaag gaacttgttg aaagcttgtt gaaattgcc a tgtttgggtg agttagacat 360
 acccatte 368

<210> 1559
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1559

ctcattccct gngattaana ctacatactg tttaaccact gggacaccct tctgtttatg 60
 gctccaaccg ataatgtctg ccagtccttc aaccaactga tctgaacgt agatgaagaa 120
 gctctggtca ccaggacggc taatattcgg gtcaagctgg caaaagtgt aaccttagcaa 180

gtaggtgaag cctgaatcaa tgggaagttg ccatgtgagg ttgaaccca tgttgaaggt 240
 accattactt cccatattcc ttacggatcg gtacactgtg tctggtgcag tgtagttagg 300
 agtcttcttt gtgaatctca gcttaattcc agtggcaata tctagagata gtacactttg 360
 agtcgttaca ta 372

<210> 1560
 <211> 289
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1560

gctacgctct taactgacac gctcttaata ttcgaagagt atccttgtgg aaccttcacc 60
 cgacgaagac actgacaaan acttatatta ttcttctttg acaaagtatg gcaggatagg 120
 gacaaagtaa atttcttccc atcagacctt ggatgcaact gtgatcgtat acccatatca 180
 gctagatctt gacgggtatt caagccatcc ttcgtcttgc cttgaatggt aaggagcgtc 240
 ccaatcacac tgtcaciaaac atgtttcttc acatgcataa catcaatac 289

<210> 1561
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1561

ctcagctgag ctcgcactat tgtcccagag ccaactcggtc cttgttcttg ctccattctt 60
 cctttcgggc cctttttgtt tccactcta acgcttcaac cgtggtcatg ttgatatctt 120
 tcagctcatc acactctttc ttgaccttag tgactgccac cttcagcttc tctttcacca 180
 ctcttgtctt tttgagctct actttcaaag ctttcacttc ttcactttcc tcaaaaattt 240
 caacctcctt cccacttaga ctttatagct ttgggagcca agttatccct tgcgttctag 300
 acttcaacca cttgtgatag ccgctgatga tgtcattgct acttccccta agctccttat 360
 cttttcttcc cactatattc cacgctgtat nggatttcta aaagatc 407

<210> 1562
 <211> 430

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1562

acccttgtct gttacttatt tcatatatta gaaaaaatta tttgcaattt ttgtgtgaga 60
 atcttgcaag aaacattaag atttatatat ataataattc atatctaaag tattatcctt 120
 aattcttatt ttaaagaaat tattatgaat catttgaaaa ttatttcgct attttggtgt 180
 cactgggtgtg atctcatttg taacatgtaa tgaagttcaa ctcttaagca tgttgtcacg 240
 gtttcattat gtgtatgaaa aaatatatat tattagaaaa gggcaatttc ctttcacttt 300
 tagtgtgtat gaaaaaatat atattattag aaaagggtcaa tttcctttat attctagtag 360
 ggtttgtctt aattctgata tactagtata aactagctgt acccatanna tgtaatgaag 420
 tttattatta 430

<210> 1563
 <211> 171
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1563

tgaaatatat ttttcggcaa gaactaatat tatattacgc actagttaaa attagttggt 60
 ttttatagaa gatagcttct ccacaagatg attttaactt atatataaat tcatcttatt 120
 ttatgggata aatatatcta tggagaagnt tatctataat aaattttaat t 171

<210> 1564
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1564

tagttaccac aaaaggaccc tntaggcatg tnttatcgcc tcatctatga taagatggct 60
 ctatcatttt ataagagtca ggttacgact ctcttgcgcatg tcttgcttaa tatactattt 120
 ttaagataag atcaagttta ctttaaacta aggtatccct aatccctaata aagtaacata 180
 tataaccctt tcttagtgct cactttcaac agtggagcag atcatttgtc aatatatgta 240

taccaataac aggtcctctc taggtatagg tcgcttattc aatcaaagt actttattat 300
 tattaatcaa aacaatatat aatgcaatat ccactaaaca attcattccg ttccctcttc 360
 tcctcttttc ttttctctca aataaaatat catttcta at ggtagnatgt cttttaattc 420
 tctcttatct tggattaata ttgatagaa gaataaaaag acact 465

<210> 1565
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1565

cactgcagt gatcactagg gttgaaatct ctaactggat tgtggtggat cgtgatgatg 60
 ataacagcgt tttcgggtgct tagtttggtg attggattct atgtctagac catgatcaaa 120
 gttgattcca ctataagagc ccgattcatt aagtttaate aatttgatga cgttggtgtaa 180
 atggaaccgc ttattatctc tttttttatg aggatgttac ttacgaaggc tctatgtacg 240
 tgtttatttt tagtgtaatt tctttgtaac cacggtaata tactgtatat gggaagctgt 300
 tcatatcttt cttaaatgat aacagtgatg tgcacttgag gttattcttg tcgatacacg 360
 catctacatg ctagcaaana tattatacat ttgttttggt taagtataac aatgaaaaaa 420
 tgatagagtt a 431

<210> 1566
 <211> 366
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1566

gtgtatatac attngatagg gaagcaccat ctatccaagt tgatacctta tgtgttcagt 60
 gaggcctaa tggatttata actggaatta gaggaagggt tcaatgtctt tcataagaag 120
 atttggggaa gactgagaca cagctagaga agcacgatat gatcaaagaa aaatgctatc 180
 tccgctttcc tacactgcca ttcattccca aggaacctta tgatcgtgat gctacagatt 240
 atgacaatct ttctcttggt tcaggagcta aagatcaaag ttttattcat gtatctaaga 300
 tactataaaa tgtaccttat atactcctga atctagatca tgtgctaagc atgcattcta 360

<210> 1567
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1567

tctactcatt agcttactgg agaagctttt cttnttaatt ttcttctcct attagtgcctt 60
 atagaaaagc ttatccaaac aagggtccact atatattctg caatctggta ctgtgccata 120
 tatatgggatg gtggttttgg acatttggat ttgtgtagtt gttgttaata acaatgatgc 180
 ttatgcattt gggcatgggt ttggactagt tgtatcaaac tatgtttgtg tattgggtatt 240
 ttggggggagg atttccactt gcttactaca tttttacatg tatattatgt aactggtttc 300
 attttattgc tacgtgtgag gtataactac ttctgttttt aaagccattg cattcttttt 360
 ttattttctt atgtttatgt cattgtggcc ttattntaaa agcatgggtt tgttgactaa 420
 ttataagcac atctaacttc tgtttgagtt t 451

<210> 1568
 <211> 169
 <212> DNA
 <213> Glycine max

<400> 1568

acttctgtat tagtgtcaat gatgcacgag acagcctcct cgtcacactc aatgctacca 60
 tgctacactt acttcaacac gtccgacata tatgctccat gcagaccttc gtacggacat 120
 ggaggcctat aacttacacc acaccccatc ctaacccatg ccgtataacc 169

<210> 1569
 <211> 202
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1569

ttaactgaga cttaatgagt gaatgtaaat gtttaataga tttgaaaaag aagaaatgaa 60
 attttcctaa aatttaaata ctntctattt atatattnta gtggtggatc aagtggcctc 120

aaaataatta agaagggggt tgaattaatt attcctaaac ctttactaat taaaaaatta 180
 ctcttctaag gcttttactt at 202

<210> 1570
 <211> 112
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1570

gcttctgtct cttggtctta ctcttaaaag ccacaaaatg ctgngatggc tccagcactg 60
 tcaacacaag cacgaatatc ttcactgtga cagcacaag ctcacagaac at 112

<210> 1571
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1571

agaaactgat tattaacac acataatgaa aatactaagt atttattacc tataacttaac 60
 agaaaatact tataacatta caaaataacc ataaatttgg agagtttgat ataatttata 120
 caagttttat acacaaaagt tagtcatttt caccgactaa caacttcccc aaattttatag 180
 ttttgcttgt cctcaagcaa aaagagaaca actcacttgt cctaaagtga caatgacatg 240
 gagtgactat gtacaaaggt gtatgctaca aagttactga ttgcatgata agagaatgga 300
 gtaaaatgcc ctcactcactt gtctttcaca agttatgcag ttatccaaag agaagaataa 360
 aatgtatact gaacaaatag atgaagttag gcattagaca gatataagg agagtagctt 420
 anaccacagt ctcac 435

<210> 1572
 <211> 235
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1572

ctgcagcttc cantatggaa gctaactctc tggatgatct tcttgctgta cttgatgtac 60
 atatannttt tatctattaa tgatgtntg tatgctcact atgctatcag aacttcattc 120

<223> unsure at all n locations
<400> 1575

tatcgagacg ctcgtaattg aaaacagaag ctctgagcca attcaaacga caataacttt 60
taactcgggt gtccgattgt gtccgttagt atattgagac gctcgaaatt gaaaacagaa 120
gctttgagca aattcaaacy acaataactt ttgactcgga tgtccgattg tgtcccgtag 180
tatatcgaga cgctcgaaat tgaaaactga agctctgaga aaaatcaaac gacgataact 240
ttttactcgg atgtccgatg gagacccgta atatatcgag acgctcgtn ttgagaacag 300
aagctct 307

<210> 1576
<211> 273
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1576

cacttggtga atatgcttct ttgctntcct tgcgctagcc cttgtcatag gtcttccaag 60
atcttcaagt ggatccttgc ccttgctctt ggtcatgtcc tcatcattct ctccctcttg 120
agaaggattt gtcctcatat cggattctcc atctgcatca naaatagata agtcagatac 180
attgaagggt gtactaacat tatacttatac gggtagctca actntgtaag catcattgct 240
tctttcaagc acttgacatg gtccatcttc cct 273

<210> 1577
<211> 235
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1577

gagcaatggt ctcaatataa anattagtag tggaattctc acaatcagaa tattcagaat 60
caccctcaac agaatgctca caatgcatag aatgaccaag atgcacacta tgcctaacta 120
atctatgaga gggtctatct atttcangat caaaggattg tgaatcacct gggatgcccc 180
tagtcatgca ctatatgcag caaataatgt gtttctcaac aagcacctaa caaag 235

<210> 1578

<211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1578

gcttanacat tgagaagaca gtatgagctt cttgctatgg atgagactga atcaatagct 60
 gagtatttca ccaagattct cacactcacc aataagatga agtggtgtgg agaacagatt 120
 aaggaacaac tgggtggtga gaagggtgctc agaacactga catcaaagtt tgatcacatt 180
 gtggtggcca ttgaagaatc aaaggatctt acatctttca agcttgaaga actacaaagt 240
 tcacttgaag cgcattgagca gagattaata gacaggaatc ctgagaagca caatgatcaa 300
 gccttacaag ctcaaacagg cataaagttt gacaagcaat gagacaaatc caaaaagaac 360
 aaaggatagt ggtgtgatga gaagtggaga aagactgaag attccatattg tgggtgattct 420
 ggatcatctt cacag 435

<210> 1579
 <211> 230
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1579

aattaaacac acaaacttga acanattgatt aatgagccaa actcaataat tcactaatag 60
 ttnggctcac ttanattcta tgtataacat cccaaatgct aacgaggacg aagaatgatc 120
 attgttgtan aagagaagag acatcgacaa gtagtgggtc atttagtattc tcttgacatc 180
 ctagntcata attgtggtct gctactntg acatctacaa atttagtccc 230

<210> 1580
 <211> 253
 <212> DNA
 <213> Glycine max
 <400> 1580

atgaataacc tgtagaag ttattgttta agtatttaatt tgtatcgttt ccctaaaaga 60
 taaaatttcg acacagtttc ttgagtaatt ttagtcctgc tatccaatta gaatcaaaga 120
 ttacaccaa aggtcagcat aagatactga aactccaatt tcaatcgaag aatatacgtc 180

aaaaaacatg caaagaacta acaaatatga atatgacagt aacgtggttg cgtttctctt 240
atctattgta cat 253

<210> 1581
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1581

cgcgaaactga gatctttgcg tgatccataa attgtgtcta ttggtttatt ggaatgcgga 60
tgatgctgcc tctgctctcc atgtatacat gcgagtctac gtgaggatgg agacatatga 120
ttggcatttt aattttgctc tcgatgttga atttgagttt ttcgtatgtg ccggtgttnt 180
gtcagagttt tcataaaact agtgaatctt actatcaaca acgaactgag caacatcggc 240
ctactatagt agtgtaatac aaattctttc acataagtgt ataattggca ttntgattgt 300
aacttcaaag aatcatttga attgtagata atgtattgga ttatattgcg ctcttcattg 360
gttggaatac attgag 376

<210> 1582
<211> 314
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1582

aactcactct tcanacaaaa ctaatgagaa cagtgtctta taacacatgt tttcataaaa 60
gaagaccaac actttttttt atttaggtta aatatcactt ttaatttatt atattttagt 120
attttttatt ttattacatt aaggtttaaa acgtttattt taattattta tatttttttt 180
taaattatca ttataatcat tgtttctaata tntatgttaa anaacattaa tgtttcatca 240
atattctaac taaaataata cctgaaatct cgtcgaagag tcaaattaac taaggagggg 300
tggttaagttt ttat 314

<210> 1583
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1583

ttaaactcgc tgtaaaaata tctatattca atcactcaaa ttatcaattg ctcattctta 60
tcattctcaa acactcattt catgcaaaac aatccactac atatcatttt caatcaattc 120
attgttcaaa cacgcttttg gtacaaacaa acaactcaaa gtgctgaaat ttatataatt 180
gaaatttaaa aaaattgaaa tataaaatct gaaattaaaa tgactgaaca taaatcataa 240
aataattgaa aataaactaa aatgttcgag atgcacaaat ntaaagtcc tgctcctgtg 300
gttgctccta tgcattgctca ttaagggtcca acacctgagc agctgggtgca gatgggtgtg 360
cataatcaag tatgggtgct agggatggct ttgggatct 399

<210> 1584
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1584

gatctgagcg acaatacaaaa ctctctagcg gtttctaatac atatgggtcca ttaagtctat 60
catatgttga caatagctga gaagtctgtg gatcttcttg ggggcggagt aggtgtccgc 120
cattgctttg gccttggtta gcaatcgggg aaattcttga ctctgttca aagtaagagc 180
aaatcgggtcc gtccacattg ttgcctcttg gtgccatgaa tcaattacc tctcccttgc 240
ttcgctntct gctgatattt tggcgtactc atcctctagc ctttgctcgt gagtcgccgc 300
tagaattagc ttctctttgc actcatcgat gacggggcac atattccctt cagtctcgct 360
taattggtgg gacaaatttc 380

<210> 1585
<211> 352
<212> DNA
<213> Glycine max

<400> 1585

cggcgtttgt agaacctgtt acatgaggtc ttttaggtc ttgtggtccg tgatgataat 60
gaaggggtac ccgaggaggt aatggcgcca tttcgaact gccgaggtaa tggcatgaag 120
ctcgtgaatg taagtagatg catgttgaag gcgtgggcag aacatcttac tataaaaggc 180

gattggatgt gatctcgtt gaagaatggc acccatggca atagcaaagg catatgtttt 240
gaggacaaaa ggcaatgaga aatccgacga ggccaacacc ggagcctgag tcattacttc 300
cttatgacga aggaaggagt gggtagcctc ttcagaccat tagaattgat ct 352

<210> 1586
<211> 136
<212> DNA
<213> Glycine max

<400> 1586

aatgtgaaga cccacaattt cttgtgtttt ctaattagag agggaaaaaa tatccagaag 60
ctatgaaatg tttctgcact ttcaaataga acctaaaaga catacaagac atttgtcact 120
gcattgagct gcatgc 136

<210> 1587
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1587

gcggtagaga gattgagatg atattgtagt cttcatttta ctgtcaacat gcaagggaca 60
tttctctcgt tttagacatt gtttcacaaa ttccaacggt ggagatgtgt gaaaatggat 120
tccaaagtcg gtgtccaaat tgcacaatga tccaacggtt aacgagtcca ggatcatagt 180
tttaatgaga taggttttgg gtctctacga gaaaagagaa agctagaatg cgaaggatat 240
ttctctcacc tctgacgttn tttggcaaatt ttcaacggtg agaataattg aaagtgagtt 300
ctaaacctgg ttctcaaatt tcatgatgat ccaacggtta acgagtctga gatcgttgtt 360
ttactaagat atgtttgagt gtatgcgana aanagagagg aatttggaaa gaggagaagg 420
gaaaacgaaa t 431

<210> 1588
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1588

agcttgctta aatctaagaa nnatcatttc tacatttga

399

<210> 1591
<211> 478
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1591

ttagtggtgaa tcattcggtg atataaacta acctgntagg tttggaatac tccacaggat 60
atagatttca tctagtttgc tcatgggcca gcgatgtcaa ctgctgggtca cacgatgcga 120
tacaaccaca gagaattgac tctcgaatga atcaggtgct cacaattgtt cataatgata 180
agtgcagtgc acagaaccca aatctgtgct cttctgctag caaggttaat gttcaaagca 240
tggaatgaag tcaacagaaa cccaatgttg ccttggttgt atttagagga tngtattgcc 300
ttacctgtaa ttgacctgtc ttccacacaa tggaatatgt ctntaactcc acatctgatg 360
tggccatgat atcctacagc tcatcgtgct gttttgagga agaaatggat taccttaccg 420
cattcttctg tactggtgat gcatagaaaa ttgtctgatg ctacatattg tgcaaccg 478

<210> 1592
<211> 338
<212> DNA
<213> Glycine max

<400> 1592

gggagcgcta tccgcagact caacagaagt cagttgtgag agaaatcaga ctatgtgcac 60
gaatcgata ccagtggtt tattgatagg accaagagct ttggcctacc ctaccgctta 120
cctagatacc tatcgtccac catccacca tcatccttgc ctatcccctt tgacactaac 180
gaagagtttc atgaacagtt aaccaaagaa aggcaagata aagaaacttg gaagaggaga 240
tgccaggagc tcgagcaaga gaatgagact atgaagggga agatagccca acagagccgt 300
gagcttatta tccagaacca gaggatgatt gagaagga 338

<210> 1593
<211> 270
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 1593

atatatacaa caatggcctt catcatatgn cacattatgc attgcattct aatatttaga 60
gattgatacg acaatcattg ctctatgcta ggcgttctct caataattaa attcacactc 120
tcaccgggnt atggctcaag ctcttctttc tcaatcaatc tggctactga ctaacatttg 180
taattgcaag cttacattct tagtctttct ttgtgtagca gacacactng ctcaaactca 240
tgatanaaca catgctttat tccaatcatg 270

<210> 1594

<211> 354

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1594

agaaccaaag aagagcaagt tatattgaga catgaacttt ggttatgcga aaaacttttt 60
ggatgagaaa acatatactt ggatatgggt tataattcta tacttaagac atttaaaata 120
gaactgaggg aatcaaactt aggtcaattt aattctagtt tacgatatgt actcatgggt 180
aaattntatt ttagtgattt taatttaate tttataaatt atttagatat gttatgtgat 240
atgtcactta catagttatt aaagtaacat atatgatttg ttatatatta catcatttca 300
tgaataaatc ttttttatta tgcagaaaaa gcaatggatt nttaattat tttt 354

<210> 1595

<211> 447

<212> DNA

<213> Glycine max

<400> 1595

tagactaact tcagcctacc attctcatatc tgatggccat actgaacgga ccattcagtc 60
attgaaggac cttctaagag cgtgtgtctt atagtagaat gaaagctggg agagttttct 120
tccatcgata gagttcactt ataacaatag ttttactct accattggca tggatcccta 180
tgaagctctg tatggtagaa ggtgtatggc acccttatgt tggctagagc ccagagaagg 240
ccttacctta tgacctaaag tgggtacaaca aaccaccgag aaagtcaagt taatccagga 300
taggatgatg actgctcaca gtaggcatac aagttatcat gataagagga ggaaagatct 360
ggaatatgag gatggtgatc atgtattctt gagagtcact tcgtggactg aggttggtcg 420

agcattgaaa tcccgaaaac tcacacc

447

<210> 1596
<211> 278
<212> DNA
<213> Glycine max

<400> 1596

tgtcttcaca aattatcatc tcacagcaga ttactaacia aactaccct catatctccc 60
aaaaccccat acccacgaaa tttaagagag aaagaagtcc acccaaact ggattttcga 120
agtcccactc gtagccacgc acttcacgac cccgaaaatg ccttcctttc gcgatttgga 180
gcagaaatga gcaccaaagg ttggagctat gttggggttt caatggagaa tggaggagaa 240
ggaaaaagca acgtgaggaa gagggagagc ttctgaat 278

<210> 1597
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1597

ctttctaagc tntnttacia ccttttctcc ncctttggct tcatcaaaaa gccaaagaac 60
tcggaaatca acacagatat aacaatggag tagcaagata taaatatcag agtaaaaaaa 120
acaaaataag ccaaactcac aaacaagaaa taatcaaacc agaattcaaa taacataaaa 180
tgtcaacaac cacaaaatat ccaagactga aatttaaaaa ccaaagata aataagcaaa 240
gtacttagca taataatgta aattctaaga aactaaaagc caaaatacac ggcttataaa 300
aagacatata atcataaact aaaatctaag aagacggagg tgggtggagga agatcaaaac 360
tctgacaaat gtatccgaca tcctcttcaa gctgtgt 397

<210> 1598
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1598

tgccacccag ctgcgccagg cgagcagggt tgcttcctcc ataagcaaca gcctactgga 60

ggaatcttct agagggccca agtgggcctg gttggctatt gcaccccat tttactaag 120
 tacaccccc tgcctttntt ggtgattctt ttttcgtaaa gttacggaaa cttacgaatt 180
 tcgtaacgat acttgttttc tttccgtaat gttacggaa cttgtggatt acataatcat 240
 cccctttttg acttacggaa tgttacggaa cctcactaat tgtgcaacga tgcttccatt 300
 tgatttccgg tgtgtcacgg aaccttacgg attgtgcac aatattttct tttgtntccg 360
 gcacgtcccg gaatttcaca aattgcctaa tgatgggtgc caagcacctt acaaggacca 420
 aacaaaagtc gcatgtca 438

<210> 1599
 <211> 476
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1599

catcctgggtc atggatagat caccaggtt cgggtctata agcaatgaca attgccctgt 60
 gaagattcgc tttcgctaca gtttcgggtgg tttcccttaa ccaagccaca acctatgagt 120
 cgccagctca ttttcaaca ggcacgtggt cagagtcccg agcctcctcc cactgcttgg 180
 gagcttacgg tttcatgttc tatttcactc cccgatgggg gttcttttca cccttccttc 240
 acggtactac ttcactatcg gtcacccagg agtatttagc cttgcaaggt ggtccttgc 300
 gatacacacg ggattccacg tgccccatct taatatgaat tactcanaag acaattcana 360
 ataaacttct ttaaagaana agataaatag caataaataa aacaagtta aaggaagaga 420
 gaatgcanac tcatattnta tactgggttg gccatgcctt gtgcctacgt acaatn 476

<210> 1600
 <211> 226
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1600

agaaacatat atctcccca tatataacan atcgataaat ggtgtgtgat tcaatgaagg 60
 tgccaattca tgacaaaataa ctggtaaaaa ctaagttccc ctcggacatg taacgatgtt 120
 cgacgaatcc cgttacgtc tccgtagggc cattttcgtg ccaactcgaa gtcgcaacaa 180

ggctcttctac tgcatactct nttctttctt cattgtcatc acatac 226

<210> 1601
<211> 218
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1601

aactttgaag tatgtctcac aagactctca ttcacacag ttacaacaag tattacacat 60
gcttctatnt atagactagg tagcttctt gagaagctnt cttgaganaa cttccttgag 120
aagctntctt gaganaactt ccttgagaag cttctttgag anaacttcct tgagaagcta 180
gagcttagct acacacaccc ctntcataac taagctca 218

<210> 1602
<211> 518
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1602

aggggctgan tcctgtatta cttgcacnt tgattctcgn gacactatnt agtactcaag 60
ctgatagata cgtgaccaga cgatcgcgag ttcagccaag ctctcttgga ggaagagcgt 120
caacagcgat ttctacctag agtgcgcccc cctcttgcaa cgatacatta tgagatgggt 180
cttatgacaa gtcgtgcctt tgtacctatc agaatcaggt acctgaatt atggagggat 240
gatgacgtcg gtactaagca aagatttgcc atgtccgcga acggatagtc tccagatcct 300
tcgacagctc tcaatctttc ttcgatgaga atcgagttcc tttttcttc cgctgccgaa 360
ggtaggcctt ctgcggacaa gaattattggc tgtgctggga gggttcgagg gtctcccatg 420
aggtagggct gaggtagtct gttgggtgct ggcccctcna cggcgaccg ngagtangaa 480
ttggtgtctc ttggcatgct ctctacactc tcgagatn 518

<210> 1603
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 1603

tatatccttt tcaccgtana tattttatat tgttttctcg tatccacatt tactcgagat 60
tatttcttat tttcatattt tctaataatt tcaaagaatg tgccactcat aaagtaacat 120
tccaaattag agataggcat tcatctactt tctatggtaa cattagtaaa acacatgaaa 180
ttatttacta tgtgttttaa ttgtgccgtt tggcatgaca tgaacaaggt tcttcatatc 240
acgtaaaaag tagataaata aaagtaaaca aataagtatg gcatatccca ttagtctaaa 300
agcaagttta atatattcaa agttttatat cccattattt catattttca catgaaggat 360
tattcaactg agagtatacc ttaattaaag attacaaaat ggagaatctc attggaagca 420
gatactc 427

<210> 1604

<211> 395

<212> DNA

<213> Glycine max

<400> 1604

cgtagccac catcttttca tagtatagta tctataatgt gtctaccatc acgattatcg 60
tctccctttc catcattggg ggtaccactt gtgccgccag atccctctac ctcttgggcg 120
tgttctttga aagatccgtc cccctttttg caaatgttct gtagttgcat cctatccaga 180
accatatcaa aattgtacta atactgcta acaaaggcaa ccattacgtc cttccaagaa 240
tagactcggg aaggttccaa gttagtgtac caggtaacag ctaccccagt aagactttca 300
tggaaggaat gtatcaacaa ttctcatct tttgctgatt ccccatctt ctgacaatac 360
atcttttagat gtgtcttggtg acaagtagtc cctt 395

<210> 1605

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1605

tgctgtcgt atggtcagca atgctcaagt tgatattacc ggcagactgc ttgtcaggtc 60
attgacattt gattatcaca tcttgacta tatcattgta agaattatga tgctcgttc 120
ttctaatacta gctcaagcct ctgaggagga tttgattctg atgtgggatt tcttgaccgt 180

tcgtcaaadc gactgtgccc atttgattcg ttaccgcatg catatggcat tgcggcttag 240
 tgcaccttta cccatccctc agntaatcac tctatttctg cgtcatttga atgtacctct 300
 tgcttcttag cctctcattc aagataaatg atccttctct attggtgttg gagcgggtcac 360
 ctcttttggc tactgcatgg agttggat 388

<210> 1606
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1606

gtcatgacat tgtcccatgc atatcttttt accaacaag gttttacatt gtgccttcac 60
 attcgtatga atatgagacc gacacaacag attggttagac tcggggaaaa cagntttcta 120
 acatgttaaa tatctgtcag taacaatgac tccaaggagt gcatcacgtc tcagattaat 180
 accttgaagt cgttctagag cccgaacaac attatttaaa cgttttcctt ccaaattaggc 240
 aaaatgcagc tgacaatgtc atacatgttg gtgtcacacc aacaatgtca agtaacggca 300
 gcttgtacct gtttgttatg caggttctat ctatgagaat accaaactat cgacattgga 360
 taatttcgac tgtttaggat gacttcaaca tatagtaatg acaacatctt aata 414

<210> 1607
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1607

tataactatag acaaaagnta atattaaata acatttaatt tctcacatta atataaaata 60
 aaggataata agattatttg attgcaaata taaatattta tattatagcc tttaaaataa 120
 caataataga ttataaaagg aaaaataatt aaaataaata atataacact tgaacatttt 180
 gttctaaaag ataaaaaaca atgacttatt cctacaagga agactataaa aaaataaaat 240
 agtacattgt ctaaagagat aaaaaagaat atcattttat ttttaaaatg aatattataa 300
 aaaaggaaac gaaatgtttt tttcaaaaat aaaaaataga ttattaatat ttaaatacta 360
 ttattcatat aattaaatcc tcaaatacaa tatttttcta atattaagat attatacata 420

tatatt

426

<210> 1608
<211> 221
<212> DNA
<213> Glycine max

<400> 1608

tatgccaaatt ctgctttaat acagtctcac attgaaggca acactatggg caatcaacct 60
ctcttgatct cagtatcatc cttggtggtg gatagttaca acaagctctc taaggaacac 120
gtttactcga ggagggacat tcaacatcca tatcagcatc caaaaaccct tttactttca 180
agtgactcac atcaagcact tctaccatac aaatcctata t 221

<210> 1609
<211> 190
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1609

cctcccagaa gagtatggag tcagcaccac ttttaacatt tctgatataa ctcccttttgc 60
agggtggagct gatattgagg aggaggaact aacagatntg aggtcagatc ctcttcaagg 120
ggaaggagat gatgcaatcc tccctangaa gggaccaatc acaagaacca tgagcaagag 180
gctccaagaa 190

<210> 1610
<211> 220
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1610

ttgctgagga aatatatccg tgaagaacat ccaagctgag gcgcttctgt aacgtttccg 60
tgagtaatta cgccaagatt ctcgaccgtt cttcaagatt caccgttcgt tcttacgttt 120
tctttagtct tcaatgggta agtacctcan accaagctnt tcaattcatt ctatgtaccc 180
gtgggtgggtcc acattntggt tegtgtatcc ttattctcat 220

<210> 1611
 <211> 615
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1611

tttgacgccg ctagangtga cactatagat gactacgctt cagcgtngca ttgaatntga 60
 nggagagggg acactgtgga actgtaactt actctcgacg aangcgatta tgagagagtc 120
 gaggactgcg tcggcnaaga gaataccatg ggccaatgtg tgtataggcg attacgagca 180
 ggggtgattct tcctctagat ctcttaggag gtgctgactg cgtcaccgat tcataggaca 240
 tcgttctctt gctgttcagc tttctgcctc caggtttcat tatgtcgtcc actaacacga 300
 tcaattcaac atactgactt ggatgtctta gctataacag cagactcctc tctcactatc 360
 acattaattht tggttatagc tcgacccctg accatctgaa ttgtgttttt cttttcacac 420
 ccgctacact atctcttact ccagagaaaa gagagaaaca ctgcacctc tcctcgtanc 480
 ttaaatagaag agaataattgc cacagattct tgaatctcat cttactatgt gtgttaacac 540
 gacggctctt atataatctt cagtgttcaa taacacaaat ttctacctcc gtgattttct 600
 gaataaccag aggcg 615

<210> 1612
 <211> 557
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1612

cactganggt cttcaatggt gattntncat catggagatg caacgaaaga tattggaana 60
 gaggtgagat gaggcgtcat ccactacgga ataagccatg gaaggagaag cttcaccccc 120
 aagagaatgt cttggataag aagcttagag agagaacttc actgaaggaa gagaatgaga 180
 gagagagaga gagagagaga cagtgcacatg gtaaatcgaa tgaagaaagg gagagaagtc 240
 gaactttgaa gtgtgtctca caagactctc attcattcag aataccacaa gtggtacaca 300
 tgcttctatt tatagcctan ngtagcttct tgagaagtag agctatctac cacaccctct 360
 atagtaagct caacctctga gagctagagc tagctgacac ccctctatac taactcacct 420
 ctatgata gtagctcacc acccttatat tagctcacca tgcaaatact gagatcagaa 480

gtctctcana ctctcaatgc tatatcaagt anactatctc tagatgcaat cagggtcaaga 540
tgaactatta tatacan 557

<210> 1613
<211> 580
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1613

caggctgctc gatagctcca gggtgctgca tgganaggca naggtctgta tgggtggtcag 60
cagaggagca cataccacan acccttgcaa catgtataga tntctgattc acggccagct 120
ggngtaccaa ggtaacccaa tgcattcacg tttgccttca agcttcttag tctcagatga 180
tgcagctgag tntgtaacta cctcatgcac ttctctaag actatggcat tatttctggc 240
gctaaactgc tgagaagtgg aagccatctt ctcaattata atttctggct tcagcangag 300
tcatgtcttc aagggtgca ccaactgcag catctatcat acttctcttc atattactga 360
gtccttcata aaaatattgg agaagaagct gctctgaaat ctgatgggtga ngggcacttg 420
cacatacgtt tttaaactgc tcccagactc atacaggctc tctcacctga gtgctatacc 480
tgnatattat ctgatgctat gtctagagca ggagattttc tataaacttc taggcatcca 540
ctctgatgac ctgacaagat acagcagctt tgctctcan 580

<210> 1614
<211> 233
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1614

ctgcgtatct aatgtcctac tntatgcaga gggaatatgc tctatacana caagcaaagg 60
gatggaaaca cctttgtgta tacaagtccc gtatacatgc tctangtctt tacacttctc 120
gattcatttc ccgggggtgaa atgggtatgat accagtctac aagtctttat gtgccactcc 180
actatgatng caaatatgaa gtatttctctg tacttctaca gnngtgtgag tat 233

<210> 1615
<211> 522

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1615

tatgaccct tgagnaccta natactacct tgagctcgct agtngtnngc nnnnnnatgt 60
 cgcacttttag caccttaana ctagctcaac cccaccaatc agtgcaaacc tcacatgggt 120
 ctagtgaagg aattaaatga agtaattgag gcnactctac ctccaccagc ctaacatcat 180
 tagacttgtc aactagatta cacctaaatc tcaccgatca aaatngactc ttcacacca 240
 acattgccta caatggcttt tgtcacttag gtcttagttt tctcttaacc tagncaacct 300
 ttctacatgt tctaatagaca tttcagctag ataactactc tacctcattn acacagaata 360
 gactagcctn caatctcaag ctcaactctt cactcatact acatttactt ctacctggta 420
 gttacctcat ttacaattca cacattcgaa taactacca ttccaaacct aacaatgggt 480
 gtacttcaac tggattacag ttcacatgct caaatataac cn 522

<210> 1616
 <211> 653
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1616

ctatgacgac gtttgangtg acctatgtna tctaccttga ngctacgcta tganttctaa 60
 gctatnacta ttggtactat tgctcgatgt tnttatgana gtcacgtana ctttgttgag 120
 ttggcagaga ttacacgtaa tctcaactgct tgatacgaac acatataaca gtgtatgtct 180
 tatatctgta taactattat tctaactacc ataggatata atcagattct cggtttgcatt 240
 aagagttatt agcactattc gctgtcatcg tctaattgta tttgtttgtt gaaaactctg 300
 tattatctgt tgatacaacc ttatcatata tatatatata tatgcgcgcg cgtgtgagag 360
 agataatgga cacacttatt ttggtatgta gaatgtagta gcatactaca ccgtgggttac 420
 taatccactt atgaacgtat acgcactttg ttnttagtnt anatacttta gaagtacacc 480
 cactgtcggc tggagtgcgg tggcaagctg accatgcatg atctccgcaa attttagagag 540
 ttatatatat atgtaatatg actgttgccc atctatcttt atagctctta tctattcttt 600
 ataaacactg agtacagcat attatttctt gtatcagtgc tcttatagtt acn 653

<210> 1617
 <211> 394
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1617

 atgtcaccat ctacagcact nttctcgagc ttctntaatc cctcgnttac aatnntgtgt 60
 attctcattc tcaaaccatc acttctcatt gaatttgatc ttaagctgca atttatccca 120
 gggatcattg cctcattgct ctccattgga gtagcattag actctaagtc agagggcaca 180
 ttggcatcca acgacttcac agctaatact ttttctagta aatctacatt ctgcatgtat 240
 cggtcanaag cttcattntc cacttcaaca ttccgctcct tgtatcctnt atcttggcan 300
 natctcattt cgtgatagat gcagcatccc tgaacatca caatgctatt actttcacac 360
 aacatacagg tcaccggaac caagtataca ctta 394

<210> 1618
 <211> 648
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1618

 tggattgach cccggttgan gcgcactatg atgtctgacg ctgcacgtca ccagagcata 60
 ntgagatcca gatgatccct gccaaaactg tncaagattc accatttgag agcagagtac 120
 gtatatacgg ttcaagttct actatcacta ctaacctcct cgcacggacc agaggggtgct 180
 actnttcaat cattctcatg ataggacatg cctcttatag aggtacatga ttactcgcca 240
 gctatataac tttgatgacg ctactcttcg taatcagata gtacagtgcg acactttctc 300
 agcctccata tttgctgtaa acggacaaga acatacatta cacatggctt ccgtacgagc 360
 gtgatgtaca tcctacacgt gtcacttaca taacgcattn gtctatcntg tgataaaca 420
 tgactatgac ttcatcgcta gagtcgagac actaatactc atcttcacca cactgtgatt 480
 gactacacat atggatgata tgtcttgact gcaatgtatg tgtacgcca taatgcactg 540
 tctacactcn gtctatgaca ctgcgtctgc actttatctg atcttgggtg cgaactatgc 600
 ggatctcagt cagatctgat cagcctcac gtgtgatgta tgaacatn 648

<210> 1619
 <211> 216
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1619

 tgcctatggt gctgcggatg attgcttcat atntacctgn gtcaactcta tcagagagaa 60
 atcacacacc ttcgaagtat tcaaagagtt gagtctaaga cttcatagag atgaagactg 120
 tgtcatcacg agaatcacga gtgaccatgg cagagagttt gaaaacagca ctgttactga 180
 attctcacat ctgagggcat actcatgagc tctcta 216

<210> 1620
 <211> 614
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1620

 ngttattgac ncccgcttag angtacacta tagatgatct caccattgga ngctgacact 60
 atagaattac tcaagctnta gctntgggtct gtaactgaac cagatgtcat cgtgtaatcc 120
 atgtagccaa cctcacatag taagataaga ctactgtagt cgtatcatac cacaacaacc 180
 tacttatcan aggggagaag gggnggacta aacaagaata ctacattcat atggagaaca 240
 ccanatacaa ctcttggcat tctatattag aatagataag ctcaatcaag cataacatga 300
 atttgttttn tcatattctt tgtacccatg tacatggctt ccaagaactc aaacaacgca 360
 taaagggtgca ttgtgaacaa ctcatttaag gattgtcata agaagaatac atgaggcgta 420
 agtacatata taagctacca caactactta atgctatata tangcagcta tgccttagag 480
 ccgagctttg ttcataaaat attctctaag cgaaatatca agtnaaataa aagctaactg 540
 atttgccatca ttttnatacc aatatgccct cttaaaaaac agaactaatt ttaatgcact 600
 agctattaaa aacg 614

<210> 1621
 <211> 606
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 1621

tgatgacccc ttgaggcctt gatgttacct gaacggcact tgnatctcag ctctaccaat 60
ggactacctt gaatatattc tttgtagncc tttgagcctt gattcccttt cttgntntga 120
agctcactac aagccttaag tgagaaacca tgatattacc atatccttca ggaatnttgg 180
agcttttgaa tttgtttgag aataagtgtg gcgggggtttt ggttcattgt gacacgtcgc 240
ttcgctgact atgcttcattg aagcagtctg ggccatactt gatgtacatt gtatatcngg 300
taaatcgtgg acatgctgaa tgatatgttg cttctcanag gcangaacat acaatcgnag 360
tacataagaa gaggatagtc atcaagaagg cctacgctg agtgatataa cttaatggac 420
aaaatatgaa ctctggctta ctttcatgta acntatgtta cttctttatc tctaattgtt 480
ctaaaggcac tatgcccttt gctcttattc ttnggaatta gcactaatca tattctcata 540
cctgtcttgg cncatacgac gtanagacnt atgatctatg tcgtgngtat ggtgatgcat 600
ataaan 606

<210> 1622
<211> 619
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1622

tgccagcttt gancccttng anngetnnna tgatnccatt gangnccact aagattctca 60
gctagacaag gttaccatgt tcanagcttg ttngngacag ctgaacagcg tantcttgag 120
tgatagatga atgaaggat ggtgggttctt ggctggcann aagtctactt ggtatagacc 180
taatggcgca tctagaagca gacttgacag gttcctagtt tctcatgaat ggcttgctag 240
atggcccagc agcattcaag ctacacttgc aagggaatnt ttggatcatt gtccaatngt 300
gcttcgctct aaggagattg attgcngecc acaacctctt aggatcatgg attgctggta 360
cttgataggt catcaaagaa actgtcatca ttgctgacat ccatcagcaa gccgggtggg 420
aggatacatc ttaaagatna aataagaaat tgaacacatc ttgagagatg gatagagaca 480
tttggaatcc ttacaaggca aacgatgatc tgattaacaa ctgatgaaga cacatcaaac 540
actatccaca aacgagcgaa agaacactga ggagacttgc ngaccaacta tatctgtacc 600

acacattcat tgactttgn

619

<210> 1623
<211> 169
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1623

ccaaagggttc cagaaacana cctagctatt caatagaaca acacaggtag acgaaatgaa 60
acgtacctgt cacgatcttt agcgcaatgg agaacaacaa gctntgatgt taacagagaa 120
gaagagagcgc cgagagaata cacggagaag aagagagcgc gagcaaaat 169

<210> 1624
<211> 331
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1624

ctgtcctcgt agactcgctt agcgccattn tcgcgctaag cgcgagttag tggaatttgg 60
cttagcgctt caagcgcgct gagcgccaga agagacanac tactcgctgn gcaagctgat 120
ggcgcgctga gcgcgctgcat gcgtggcaga ttctcttcca gattctcctc actcgctaag 180
cgggctgatg tctcgcttag cggatgttgc tcgataagca catttgtctc gcttagcgag 240
acaatagcta cagtaacctt ctatttcttc atcttttcac ctganactga agttgaaaac 300
tcattaattc aactggagg ggatatctac t 331

<210> 1625
<211> 297
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1625

cactatctat cttcaatgta gctgaacana atgaatgtca tagacatgac cgatacanat 60
tatgtgatgc acagaagaat ctgttggtgg ttgacttcta agaggaaata atgtcatgct 120
ntattgtcgg gacatcgata caaggattac attatacctt gatgcaatga catatcccat 180

nctcgggtata tccatccact tatccacagt aacatgaatg anacanatat acacgtcaaa 240
gttaattctt annaagcana acatanatta catacctttg gtaacccatc aacaagt 297

<210> 1626
<211> 277
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1626

gctatgcgca tacttcttac anatgttctc ttgcacaaga cattctatta accgaatata 60
tgcacncata tacaatcaag gcagctccgn tacctagaat atntacacgt acttncaagg 120
tgtatnngtt acttacatcc cacacatctn ctttggtctaa atcacatata tgcataccca 180
nagcattntg gngtaccaaa aattgcacat gtacacctct tgggtatttct aatacctata 240
catacacaaa ctntatgatg aatcttgact atctaca 277

<210> 1627
<211> 234
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1627

tcttcatatg cattagcttg ttattatata gacctaacgc tntntaccta ttactgtcaa 60
ctnttactta cttgcattta ctcgttttat canagaagta gtttatgtct atctttaacc 120
atcatttatac aatgatgttc caacaatgcc ttacttctaa ataaaactct gtctaataag 180
caagntccct tgagttgata ctcggatcat tccgcttcaa tttaaatact tgac 234

<210> 1628
<211> 591
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1628

ttgaaccgtt tgaggcetta atatctcacg ctatgccaca cttgcttaca atgagcttta 60
gcactagaca ttctgtacac cgattatatg ctncatcta cacataacgc tattgcgctt 120
gatagattat gtacacgttg attgacatag acttgaccac ttacatgcac cacatctcct 180

tgcaaaaatg cacatacatg catacccana gcattatgtg gtactactaa ttgacatgca 240
 ctcatctagg gatgctatat cctttgatgc acgacataac gatatcttta tattctcctc 300
 tatagacgga gcttgagtca atatgatact cgcaaaataa gccttaggag cctccataaa 360
 taccttcttg ataaccata acaagagggc ctctgaatca tcaatgtgct gtccaccgac 420
 agctgttcta gctatagaat tggtaggcta tatcaatgac gacaccatga caagacttta 480
 ccatactaata aaacgcactc gcgaatcaag taccgcactc tgctccatga tgcatacgcc 540
 gttaaggatga atgatacngat ctatgccgctc tgattgtgtc tagagacact t 591

<210> 1629
 <211> 403
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1629

tgcacncata tacaatcaac gtagttgcca tagctagatg atatacacgt acttccactg 60
 tgtatatgtt acttacatcc cacacatcta cttgactaaa ttcacataca tgcataccca 120
 aagcatgttg tggcaccaaa aattgcacat gtacacctgt tggcatttct aatacctata 180
 catacactaa ctttatgatg aatctcgact atctacacaa taaggcgcta catctcatgc 240
 tctgtcaaag ttgtgtacct agagccgatg cagatgacag atatttcctt tgtaactaaa 300
 ctgcttcaat agaaggatca ctttttggtg tgtattctta catacatgag atattattga 360
 ttcttggcac attgatacat tatattgaca tactcacatt tgc 403

<210> 1630
 <211> 377
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1630

atgatgaang gatgtcttca gttctcgctc tctntcttga tgccatctgc aagaaaagaa 60
 thtagactgt cgcaacctac ctttcggcgg gagggcgatg cggngatcat ggggtcgtct 120
 tcaaagaaag aaaaatgcgc ggagtcacca ccaacgttta nttgangaan acgtcggnaa 180
 aaccgacaaa tgtgtggtct acgaactnta agtgtgaaaa ggtctggann gtgtttacac 240

accgngaagg tatagcacc acgcgtcatc acaaggatga caccttaatc aaggtccata 300
 tactcaaatg ttatttcctt ntatgcttta tgctttggat ttatctttgt gcacaggtgt 360
 cctcctctcg atctcac 377

<210> 1631
 <211> 324
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1631

taactgaagg gcaaaattga tctttcattg aattgctggg tgcaccagca atattgctgg 60
 gtgcacctag catatccgc tgggtcaacgg tcatggttgc ctgcaattct ccaggatgga 120
 naactgtagt agtttggtgca agaacctcta tttgtcatat gagtgttgct aggtgcactc 180
 aacattatct gttgaagtgg tgcacctact agcacttgag ggtgtgcact tgcactctct 240
 cattntgtaa nattcattan atctgtaaat aacaatctat acttttatat tctaattatc 300
 tatattcata taatcgaatc cact 324

<210> 1632
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1632

tgtgactgcc gtgtcttaaa cattttcagt tatannattt ggtttttata actctngngt 60
 ccatatggta tgctntgaag aataagttag ttaaaattgg ggatctgtat atatttntac 120
 aagttgggta gctgatcatg tattggaaac tgaagctcag aaacttanaa nagcaactat 180
 gttcatataa agnntttggt tattttatta gcctctcatt ggaagcatcc nctgcatggg 240
 tnggataatg tangtctgaa agtaaggatg ctgcatatga tgatgtaatg aaagatttcc 300
 tttggactat agatattntt aatttggtgca ctttttatca tttctttaga ggctagatat 360
 cactacttac tatgaaatag gccccattgt atcacttata atta 404

<210> 1633
 <211> 499

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1633

atgacncccc tttganggca cttnatgatt acatttgaag tgcactatga ttctaagctg 60
 cactgtgctg agcatggaac attatgagat aaataaactt ttttattgat tgacatgaaa 120
 tgacagcaga cctgggatca tcggaagga agatggtgga aagccatgag aatgaaggtg 180
 agaattgcgc ctttgaatac cggtaggcgg aggtgagata tttcttttat tgtggcgcgc 240
 tgttgccctca tccaaagagg ctcttaatga aagtgtggca catgataact atagccacta 300
 gacaatgtgc atgtgtatgg caataattgc agtgaattct tattattagg taagtttacc 360
 ctaacctcaa catatggaga tttttaaata taaaaataat tatctattaa atatataaca 420
 tgtttattct ttcttagtta cttactgcct tctgtttctc acaaanagat gaccgcggaa 480
 atatatgtn actaatggg 499

<210> 1634
 <211> 606
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1634

tgcgcgtag gccttgtgct cgtgttaggc cttgatctag ctgacaagtc tcaattagta 60
 ttactgaata ggaaacttct ggtttagca ctggtgagaa ttgattgaag tgaacaggtt 120
 gtgcgagcac gaataaagaa aactatcgat gcctaagaga atcaagttgt atttgatgca 180
 cagtgattat aaccaccacg tntctgatta cgctgaatgc atgtatactt gatgcaatct 240
 ttatactatg tgtctgaagc acatgtggtg tagctctgct gcatatatga tgagcaattg 300
 tggatgata natacatctc canagcaatc acaatcacat catgtgcagn taactggtag 360
 tgtagtatac anatctaana gttgtatagc ttcattgacat ctactttctg cataantaga 420
 tacataacan aatagacctc agcttcatct tgctacctt gaacatgagt tcttatatat 480
 gggatgattat atcatttcag cttaaactat atgtcggtat acgtatgtgt cgaaatgact 540
 gcagggtact cttaaataat acctgatggt catgatanga ncatgactga atttcacgat 600
 catgcn 606

<210> 1635
 <211> 513
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1635

tcactcagcg aacatgaact ttgtacgaat tggtctcctg cattggattc attntgaata 60
 ggtgcttgaa aaatttattn tcatatttta ttcactatga tcctttgaga aatgaaccaa 120
 tctcattaag gtgaggacat aataaaattg ttggatacta tacaagccac gtttattcta 180
 catctaatgc taaaattagt ctaggatttc caaatttttg tagccaanaa ggagacatgt 240
 tntgaaagtn taatcagtag tgcanaaatt gagagctacc anaacttata agttgagttt 300
 tgggtggccgt actttttctag agtcttttgta tcgctggaat ngatatgcct ttcaacacnt 360
 ccaatgtaaa tcttatctca gacaaatgtg ctaagaaagt cgatagataa tacatcagat 420
 tagagttact acctgattat ntagattata naacctgtat taaatntatc atatcatata 480
 atgctaataa aaaaatttta tatattaata ttt 513

<210> 1636
 <211> 603
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1636

ngtgatgacn naccgatnan gtgcactatg tgactcagct ctgcgtgtca gagatatctg 60
 tagagagaat ggtccaagtg ccagatagcn ttgttggtgcg aatactgact gacaactgat 120
 ctcgattagg ccacttcctg atagcatgat atgatatctg tgagagacct gcacgatcta 180
 tatgttgag agacatcccc actcctcgac ttcatacat tcatggttct tatactgcac 240
 ttgttgatac gaagctgcac acatatggag acgtacaacg atagtggat tccttggtgt 300
 acttgatgtt atacctctat ctcatcctat aagtggatgc gacgatgcgc catcntgatg 360
 tgatatgcat gttatgcatg aacggtagaa catgcttccc atgatgtcaa taagcgtctg 420
 cccgatctct atctagtatg cgagcgtagc accgcataca cataggacat ggccagatgc 480
 gcttcgatgc acgtgttgac gagtctgtga tatagctcac ggatgaccgt gcgaactgac 540

atatatgtga catacgtggg gaggcacatt aagacctctc tatgtgcatg tgacataaac 600
tcg 603

<210> 1637
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1637

tcttcagaaa caagtcactt gaagaaatgt gactntngga natgtatntt tcgaaattat 60
tcactggtaa tcaattacca ttaaggtgta atcgatgaca catcaacaga tgtgactctt 120
cattntgaat tntgaanatt taaacgttta gaggctctgg taatcgatta caaatattgt 180
gtaatcgatt acacaagttt anaatgatnt ganaatgtnt aaaccaagt tgtgactctn 240
gaaatttgan atctaacatt ntanagacac tggtaatcga tacatgaata tggaattgat 300
acagctctgt agtcagtttt gaaataatgt ggtactggaa tcgatactg 349

<210> 1638
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1638

gtgccttatg aatcctcccg tgcttatgcc accagtacct ggaatgcctc tcattntgta 60
catgacaatc ttagacgagt caatgggggtg tatngctggg caacatgacg aatccgggaa 120
gagagagcgc gctgttact acctaagtaa gaagttcacg acctgtgaga tgagatactc 180
cttgctcgaa agaacgtgtt gtgctctagt gtgggcatcc catcgcttaa ggcagtacat 240
gctgagctat actacctcgt tgatatccaa gatggaccgg gntaagtaca tctttgagaa 300
gccagctctc acgggacgaa tcgcccgggtg gcaagtcttg ctatgcaagt ntgatatant 360
ctacgtca 368

<210> 1639
<211> 312
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1639

acagggcaga gggcagaaac tctgcccana acacanacca ataccacaac tttgtcttac 60
tcaattacct cagcaacatt ctcttcgttc caattcgttc accgttggaa tgcactcgaa 120
actttactgg agatccctag tacataagtc tacattntga ccgttgggat cttctaggan 180
acgtccagaa cccaatatat acaacccttt tcacaaccag caatgcataa gcattntctg 240
caccaacaca naattctgct gcacacttta acagcanaat tctgcataga agtgcagaat 300
ttcgaaatca ct 312

<210> 1640
<211> 208
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1640

gcgctatccg cagactcaac agaagtcagt ggggaaagag atcagactat gtgcacgaat 60
cttataccca gtgtgttatt gataggacca atagctctgg cctaccctac cgcttaccta 120
gataacctatc gtnccaccatc ccaccatcat tcttgccctat cccctttgac actaagggaag 180
agtttcatga acagttaacc aaagaaag 208

<210> 1641
<211> 528
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1641

aagttctagg agagcattca tctgtagatc aacactgtct ctattattcc atcttctatt 60
acttgactag tacatgtaag gcacttagct tcaacaatag ccgcacacta ttatatctga 120
nagttactac tctatctcta cttttaagac ctgagtatag cagctcttat ttacctgttc 180
atgacaagtt ctgtgtggct gtatctatct taccactctt atcatcctgc aacaatctac 240
ctcanatatg tgacagaatt gctctgaacc ataatgctct tctacgacct aatgaaagta 300
catggagata taacttacac gcttncgtca gctcatcaat aataatacaa agactcatat 360

ggggcangga tcatattcat aacangcagc ttttgctagt gctattcatc atctgacgca 420
 tcattgcaat ctgcgtattc gattcaagat atgacatcat acaattaatg tcttcccgtg 480
 tgtatatact ccagtactgg nacactatat tctctgtcta tatgcttn 528

<210> 1642
 <211> 262
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1642

tctatcaata gacctccaat ctntaatgga gaggggttacc actactggan aaccgcaatg 60
 cannatttta tcgaggcaat agatctaaat atctgggaag ccatnganat anggccttat 120
 ataccaccca cagtaganag agtttcaata gatggtagtt catcaagtga aagcataacc 180
 atagaanaac ctagagatag atgggtctgaa gaggatagan nacgagtaca atacaaccta 240
 nnagcccaaa acataataac at 262

<210> 1643
 <211> 561
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1643

catanggagc catgccaatg gtagagtgga gactggtatt ataagtgaac tctatcaatg 60
 gaagaaaact actccagcta tccttctgct ctagacacat gctcttaana naganctnca 120
 acgaatgaat ggtccgttca gggtggccat cactctgacg atggcaagct gaacttagtc 180
 taagcttggt tccaacgctc tgttcaagct cttccanaat ctagaggtag atctangatc 240
 tttgtcagat actatgctag atggcacacc atgtaacttg acaacctcac ttatatacaa 300
 agtggccaac ttctccaaga naatctgata ttaatgggaa tgaagcgagt tgacttagtc 360
 aatctgtcaa caataaccca gatagaatct aaacctctan gngttctagg gtgtcttacc 420
 acannaatca tgganatact gtccgacttn cactgnggta tctctaaggg gtgtacntcc 480
 gttanngctc tgatgtctat ctaagcttct gaagacangc atgatacaca actactaact 540
 cttcttatag tggccacaac n 561

<210> 1644
 <211> 583
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1644

attgatcgcc atctattang tgcactatga atactaagct tgcacactcg cncaggcgag 60
 ccaagagctg gtccagctcc aatatttccg cttcagtga aaactcatat ctcatactca 120
 agatgctata tatatagccc aacgggtata atgtggaaaa gtgtcttacg aacctncaga 180
 gaaaattgaa gacgatccaa cggttaacga atccgagacc gcaattttac tgaaataggg 240
 ttaggtaaaa atctgaaata tcataatttc aacttaactc aacanaattc cacataactc 300
 aacatccaca tcaagaaatt cacacatgac ttattcanac catacctcaa ctcatccaag 360
 tcaaccatat agtcaaataa cacaatanat accantaaac atcgattatt antagtaata 420
 tntcagggtg tacagaggcc accaccctac angacaggac acctctatat cncgctnaat 480
 actctttgct gaccacaaac aggatactnn gtattngttg tagaagggat cactgataac 540
 tacaccttaa ctctgggact caaatctcat agaggttatg tcg 583

<210> 1645
 <211> 611
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1645

ttatgacgac gctataggac cttgagactc acgctgtgta gtattanatt aaggacaaga 60
 tntntgaatg atctccatga tatcatatct attgaatgaa ctattaagaa gcacgtcaca 120
 tagaaagtgt gatggtgaca tcattgctcta ttataacgtg aaccanattt ccctagctct 180
 agcattcacc taattcgctt atcttgatct tcgactctct tttgaactac tcgtngtctt 240
 tctgctcgt gagctgagtt gaatgacata tatgtacaat aaccatgatc aaactaagca 300
 aaaattgatg ttgctcaagc ttctatgcag aacaagtaac taaccaatac tggttacata 360
 ctatcatcga tatggaagaa acaatggcta attaatacaga aaccgcattg tacatataga 420
 ctaccttgcc atgtaccaat taactanggc tcgttggttat ctgagctcca agtacataag 480

tgtctcgttaa atgagcacat agataaggag tgatcaccta tgattatccc aatatgctca 540
 tgcctaacta caagtgtgta aagacacatg acacatcata tgccttaatg atctgcaagt 600
 cgatccntgc g 611

<210> 1646
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1646

aggctttact agcttatctg tcatgtcgct attcgtctct tatattacaa tagcctttgc 60
 ctgcttagta ttgcaattgg tgtgttgcta tcttcgacat tattttacgc ggttgaagga 120
 attagaattt acaactctga agcagtaaaa acaataatat aattggtaat actctacgac 180
 agttaaatac taaatataaa tatattatctt aaaaatataa aaattataat tattgaataa 240
 atgaagaaat ataaaaatag aagtaaagta taattttact atcaaaataa ataactaatg 300
 ctatatgaca acaataacct tgaaggatgt attatgaggg cgaggctgca acatatggtn 360
 tctatatatg tctctattta ttgtaaaaca cacact 396

<210> 1647
 <211> 304
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1647

tatctataca nattgatata taccaatacc cattaacatc acaatcttat tataatgtga 60
 ctataataat aaagccatag ccaaaagaat taatgagaaa ctctgatacc tcaagtacaa 120
 caacacatga ctatgaccat ggcacaaaat cgaaactaga agtctacaca naactagtcc 180
 ctgcacgacc atggtgcaac aaatagtgcg ctatctgacg tctggcttgc tctgcagcat 240
 tagaagcgaa cgtattctcc gccaccatct catcatcgaa gatctcatatc ttccagtgcg 300
 gatc 304

<210> 1648
 <211> 622
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1648

cttatgactc cctttgangt gacctatgat gctaacctta tactncttat ggtgagagaa 60
tgttagaaca cgcaagggtan agagtgtgta tttgtgatnt ctaattgact tgtgactttc 120
ggtttcttgg tttgananat cattnctaag tgtgtttcat cttgctaate ttacgtcttg 180
caacagagcc gtgacaaccc atttggggta aaagctgtga gaagaacgcc tgccacaagt 240
acttggaacc agaggatagt tgccatgaaa ggcaactaag cttgagagaa gccagtggaa 300
tcagtaaaat ggttcacgca caacannaca taaatcattg ggacctggaa tcgtgtgctt 360
gtgctaaaga atgcttctgt aatgtgtgtc ttccatacat atctagatac caacattctc 420
ttttccacac tggatgctga gagtactcta cactactcaa gactatgcat tgtgatgttg 480
atgtagntaa taactgatat actgggtccaa tcttgtatct tgatcttata acatcataag 540
agaaataatg gttagaatgt cngcctacta ngactacaat attttataag aaacgtaaatt 600
gccctaagat cgcgcgcttc cn 622

<210> 1649

<211> 586

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1649

cgcccactgt gttgancccc tttagnngac ctaaattgat acagtgcacg tntctcnnna 60
ntatngagng nnncgaaacgc tctacgatct attttcgttg ctggtcgngg accacacttg 120
tattattgat tggatttcga attgtaatcg catcgatatg aaacttgatg tccttatcta 180
cacattgatg gttctataga tcttgtggcg cttaagcgag ggtactttgt tcttanctgc 240
aacacagttg cagtgaanca tatggttgct gattctacgg cttangcata actgaatcca 300
cgcttacacg tggattgccc atccttatgc atcagaaccn gaaagtatct ttggagtcca 360
cggattaact tatattgtat actatatggc atatgagagc ttcacacggt tcagcttcta 420
tgaattcact tttaanattg tactgttaca tgttgaagca ttctcattca ttgtgctggc 480
ctccggatta gtacaagatc caatcttcga aagacagctc aactttcgta cctctactta 540

aatgcaaagt gtcaatcacc tccatgagac cgcgcgtcta cgcccc

586

<210> 1650

<211> 662

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1650

atgannnccg nntgnangng cncnnnattg actcccgtg tnanngtcca ctataganta 60
ctcaagctag ggtgatggtg cgcgtactga tngtaccat gaggtgtag ctgaggtctg 120
atccacgtgg gtggtgaaga gacagcatgg gcatctcctt cctttcgttt tgcccgtagt 180
gccccgattc tttaggcggt cacgatcgtg gaagaaacgt aatcaaactt tcctctcttc 240
aatccaaact cgattctatt cccggcacac accagatgcg cagagctgga cggcatgtaa 300
cccactagct tctcatagta gaacactggc agagtgtcta ccatcatggg gatcatctct 360
ctctcaacca tgggaggagc tacttngtgc cgcaaatcc tccatcgctg cgcatattct 420
ataaaggttt caccctcttt cttatacata ttactgcagt gagtacgggc aggagccata 480
tcagaaatgt actgatactg gcttangaan gcgggtatca gaatctctca cgtacggata 540
tggaagctt canattagag tacacactac cgcactcctg ccagtatctg aagaatgatc 600
acagctttat cttagatgac gccatctaca gagacatatg aatggtntgt gacagcgtcc 660
tn 662

<210> 1651

<211> 568

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1651

nntatctaca ntntanaggt atagatcttt attngtatat ataataatat gggttttctt 60
tagnattctt aacataaata gaataaaata tgggagctac tcataaatct atataggatg 120
agctaaaatt aatggctagt aatatctatg tttttcaaga cactcaattc taaataanaa 180
ttatacataa gtgacaatta tagaataaaa gaaatagtagc taatatagcc cttttctttt 240
gctttntcta cttcatctca ggagaactct cgagtcagtc taaactccac aatgtccttt 300

ggttctacta tgataacact cggaaatang agtaataact aaatgcactt aactcactct 360
 gggactatta gtggctcaca taatgtattht acaaacataa ntcacttncg tattacctgc 420
 actgagtctt gtgggatgaa aatcactaac tgagtcttaa caccaaggaa gttctataac 480
 tcttgatata ctttgtggac ccaagtatta agttccatgg ttattatgga agaaccgaaa 540
 tcaaagtctt ttgttatatt tattttgg 568

<210> 1652
 <211> 569
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1652

ntctttccat cacgatcaca gggagcatag acattgacan tcatcatcct ctgtatatta 60
 ctaatacatg tcctttcaag cattanaaaa cttctactct ttctctctcc tatccacctc 120
 anaaatggag ttattccaca nacataatag gccaccagca gcctgcacag aaagaacata 180
 atcctaattg gcagtcgagt ccccccaaat ggctggcan atactcttat tanatttctc 240
 ccttttttgg tcttggagac agacaangtc cactcttgtg ctgttacaat gaacaacana 300
 ttgaangnnn nncnnnnnnn ncnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngnnnnngnn 360
 tnnnantnnn nnagnnnnnn anngnnnnnc nnnnnnnnnn ncnntnnnnn nnnnnnnntn 420
 nnnnnnnnnn ncnctnnntn ncnntenncc tcnnnncncc nnnncnnc cccccccn 480
 ncnncnccn ctcnncctc cctcttttcc tcttntccc tnnntctccc ttntctctcc 540
 tctnctctct ccttcttct cctctcccc 569

<210> 1653
 <211> 587
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1653

gattgaaacc cgcttgangt gcactatagt gactcacgct tgagatgncg aagtngtgaa 60
 gggngannac ttctgcttat atcgttgacc aactattgt acctggagat atgtcgtggg 120
 ggtcaagaga ccttgggtgac gtcaagtggg gtgctatcgc tcacaaccaa gctagaccaa 180

tcccgaccca acccgggcat agtcggtcag tgagaacctg tgatgtacct aaacaggcga 240
gctccttgca gtcaacagat attatgaaca tagaccatca agcacggagg ctagtggtgg 300
ctgccagctc gtgaatttgt gaatatgtgg attatggcct cttgtaatcg attacacagg 360
tgtgtaatcg atacgacgct aatatgaaac aggangctag atgctctgga atcgatacca 420
ngggagtatc gataccagtt aaaacaagtc ngaactgngg agctctgtat catacacctg 480
ttatcatacc aagaaggat gtatcatcca gctggatcat accgtgtttc tatcagtcta 540
gtgtatcagt agcttgata tacaggggat cttcccaatc acctagt 587

<210> 1654
<211> 403
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1654

gctacagatt gnnghaaaaga agaatacaat gtagattaat tccattacat attgctcttt 60
ntaatgtttc tattgttctc ttttgtgaat ntatgctntc caatgtccat ggctagctaa 120
accctgagt tagggttacc tatctatgaa tctaattct cttatttcaa taaaagtccc 180
attatttctc aattatatta ttgtgttggtg tatactctcta tttgggatng atcacctan 240
aacctgaatt gattaattgt tatgatcgac anacttaaat taatcgacct atgaaataat 300
tggattccta ggatntgcat gaactaactt atccccaagt tactaatctt atagtaagtg 360
taataatctc tggctanact tctttaatta atcctatgaa cat 403

<210> 1655
<211> 397
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1655

tctcctcatg tcgattcaat ctcatcaatt ccatatcatg ttcctataac tntccagaca 60
gagtagcaag agacatgtta gaaagatctc ttgattcagt aatgggtgct accttaggtt 120
gccattccat gcttaagcaa ctcanaactn tattgataag aatcttcatt tggaatatatt 180
ttcctaagga tgcaagatga ttaattatgt gtgtgaatct cttttgcatg tcctgtatgg 240

tttcattang attcattcta aataattcat attcatgagt taaagtatgt gtcctagacc 300
 tttntcacat ctgtggctct tcatgggtta cctataaggt atcccacata tcttttgcac 360
 tttgcacatt gacacccan agtatcatcc attcctg 397

<210> 1656
 <211> 320
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1656

acacgctgcg tgcctttaa cactgtcatg catataacct aaatgtcatg tatgcctctt 60
 gtgtatgatt atntgaggat attgccatgc tgtgtaaatn cntctgggtgc gcttttgcgc 120
 ttctgcatca tggcgtcaca catgcgttgt atgtgggtct cgtcttttgt catgggaagt 180
 cggaagatcc atatcgtctn tntaactgca cacatanggc actgcgcct caatgcgcaa 240
 gtaaggagag atgatcnttc gggctctcgt gttcataaat gcattcatat catgcattgc 300
 ataaacatct cttcagcatc 320

<210> 1657
 <211> 145
 <212> DNA
 <213> Glycine max
 <400> 1657

accactgtca gcatcaatca tacttctctc catgttactg agaacttcat aacaatattg 60
 gagaaaaact gctcatatat ctgggtggaag gacaactgac acataatttt tatatctctc 120
 caatatcata tacgctctct cactg 145

<210> 1658
 <211> 155
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1658

accttcctat catttgctct tttatactat taaaatcccc tacaagacac caactttnta 60
 taccactact tgcccttntc aactntaact cctnccaccc tettaaccta ctacctctct 120

cacaagaaga atacatatta acgattgtga cttca

155

<210> 1659

<211> 192

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1659

tgctgaccac catagagacc ttgtttcttc catgcatcaa cctggagcga ttgagcaacc 60

tgaagcttat gctgcanata tatacaatag acctactcaa cctcagcagc acaatcaacc 120

acagcagant aattatgacc tctccagcaa cagatacaac catggatgga tgaatcaccc 180

tagcctcaca tg 192

<210> 1660

<211> 242

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1660

tcgacctgac tgttcaagat tctgtataac atanaagcct acaccttaag atgacttcca 60

ttaaggaaga caacttcttg atccatgcaa ttgctatata cttaattaac aaatacgtca 120

acaatcatat acaaaagtta tctaacagat agaagaaaaa gaaataccat acttacatat 180

caagataaac ataacattag tgaagaattg tgaacagata aatgatgcca tattgaaatg 240

ag 242

<210> 1661

<211> 270

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1661

tagcttgtgt gtgaaagaat acatgttgtc atattaaacc gtggagaatg tgaatgtatg 60

tatacatgat tatgatgatg tcttaagaag aatanacaag gctcattatt cttcaagaat 120

aatacaagat tgtttcatca cacaaagtct tgattgaaga gttcttcaag atcaagcctc 180

gcctcacaat gagtgccttc aagtcattca aggcacatgt aatcgattac caatggtttg 240

aaagtgtgta atcgattaca catcatatgt

270

<210> 1662
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1662

gtgcctagct ccttataata tatgtataat gtataacttc gttattatng cattgtcaac 60
attgcattnt ctgtcatcat actngattat gaatttttct tcatectttt cttttggcta 120
tantaacttt agcanctttc ttatttgggt agactaaatg gtgttttgca ttgaagggtt 180
gctaaactctt taannagtgt tctgacagat atgtattgaa accanaatat cctcacgatt 240
catttatcag catgctaaaa gggtagtgct ttaatatcaa catacctaca taccctngtc 300
tttgcttttg ctntctcatc ttgantccag aaccaatgtt catatcangc tagcatgaga 360
tcactaatac aaacccatatt tagaaaacta tacatgcata 400

<210> 1663
<211> 639
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1663

gatgancccg ctgnanggct cttatgactc catttgaang ngcactatag antactcaag 60
cctatacant nctgagaagc gctaganact ctctagcata tctcttacac acattttggt 120
aattgctaaa atgtatagca caatattaga tcttatctat gacttatcac atccttatca 180
ttattagtca atttaaccaa taacaatgta tgtatactta agagagtatg tgctcctaata 240
atctntcttc tctctacaca tattatagac tacttattta tctccactaa agacactgtg 300
tggatctctc acggatgtca attgcanatt gcattgaata tagacaattg acttgcattc 360
taccttatag gtggtcgata ctatataacg actnttcttt gttcttgctt atattgnnga 420
ccatangagc agcacaactc tggcaggaat gtacaatgtt ctacactctt ctggcattga 480
actaatcctt cttgtcatat tactgatgca cagacatcaa tagcataatc tttgtacgta 540
ctctcagaat gtacttcang ctgagencat gacatgatat attgaantcg cgcattgattt 600

aaacataaca agtctacact gctaatacac tctctgagg

639

<210> 1664
<211> 541
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1664

ctccgagggc atggcatgtn cagtttcctg anatatctan aatctcgtct atgacgatct 60
tttctttctt gaagagtcca cagggtattg tancttcaca cttcatcca cagacttgtc 120
actcctacta ttctttgcag tcttatgact ttctgtcctc cttatcattc tntcactaac 180
tatgtctttt tctttatcta gcgccttcaa ttctatattc tagaccatnt tctgacctct 240
cttgtcttga ttactatngg atgacttggc aactatctgc tcggccagnt gtgccacctg 300
gacctcaaag ttcttcagtg ctgactcagt gcttttgca tctgacatgt accttcatat 360
actgagtcaa ggctccacca gctagtagtt tctggatatg taggtcgtcg tgattgcctg 420
ttgacgccac ttgtcttggt actgatgcag gcgtgctcct gacttgtata atgacctgtg 480
aacctggatc tctgagatac ttgcctgtga tccataatga tctgaggttc tancgacact 540
g 541

<210> 1665
<211> 589
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1665

tgacccttta ggcttatgc tcgctgtagc cctataatct agctcacgag taaatcngac 60
cggttggact ggatacaaag actctggccc gtggattaat ttatatcatc aacaatttgg 120
cagatatgaa acagatgcct ccgattatag atgaattcat gcaaacggtg tataccaaga 180
gagctaattgc ttcatttatt gcttaataacc aaaggactga acccaatgcc tcaacgattc 240
agaccatctc ctcatgtgtg ntctacaaat cgtggtaagc tgctaccaac agattgagag 300
aactatgtat ctattataga tgaacgtcga tctgcttcat agtcngaaga cacttatata 360
cnagcgtgca ttgctatgaa gtgtaacgaa gcangatgga acaaagtatg ctgatattca 420

cgcgatttga agagctacga tcagttcatg gactnttctc tacatgctan ganggtgngt 480
 ctgcaacaat gatactttga tganagctgc tataatctgca ccgtgtngnn gttagtactg 540
 aagtgtccac acanaaggtg tttccacaaa ggctatacaa cgtgaccnn 589

<210> 1666
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1666

gtgcaccttt tngctntttg tcccttgagt cacttgatct agctgccagt gtaccttgct 60
 gctgatcata tgagataaag tcgtaccaac aaatgaacta attgtattaa ttgaatatga 120
 gataacttaaa cgttattgcc tataatgtgc aaactgattc atgcggcaac acgtaattga 180
 cttaagacat gtcagctatg tcatgtgaat tctactctgg aatcatgaat tcttgggcta 240
 catatacatg acttaatgta gcgaaatgaa acaatggaag aatctatgat gtctgttgct 300
 gaatagatga ggacatgtgc gaaatatatg tacacaacgg gtgtgcaaat tggggaaaac 360
 tcttactagt ttactttgcg ttaagtacat gagacgagct ttgtgtgaca atagtttgat 420
 atgcatgcat gtttacctg cactttatga taatcaattc cn 462

<210> 1667
 <211> 207
 <212> DNA
 <213> Glycine max
 <400> 1667

agcttcgatc ttaaatttcg agcttcacga tatattacgc gactcactcg gacttacgag 60
 tgacaagtta tttatcgtag aattcgctac tatcttctat tgtaaataac cagcgtattg 120
 atatattacg ggactccatc ggacttccga gtgaaatgtt attgtcgtgc aaaattgcta 180
 ccagcttcgg tatttaattct ctagega 207

<210> 1668
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 1668

tactcaagct tcgttnccag agcatctctt atttaaagca ttcagcgttg tcttcgtggt 60
gcttacgaaa aacgccattt cttctccttt ctttcttaca agccacttct aacatcccaa 120
gcactttctc catcaccac aaccaccatt agccaccacc aactatcggt gttctccatt 180
gaaacccca cccgagagga accctctcac cgaagcggaa tcttctaact cggcttgcca 240
tttcggtaga gaacgaaacc ctaatctgac ctctcggttt ttttcgaggt aaacataagt 300
ctatgctcgt ttcttggttag attcatcttg gctttgcac ttttctgact ttggaaccgc 360
cattgtatgt cttatgcttt ctttganaaa ccttagagaa agagactttg ctagtgtatc 420
ctttcatgaa atgcatgtta ttttacgtac ctacact 457

<210> 1669
<211> 279
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1669

cgctgcatgc tntctacttt gagtagattg agatgaattc atcgctatct catggactcc 60
tctaaggaca atagcattat ttcttgcaact gaatagatgg gagctggaag tcatcattct 120
aatcaaagtc ctacccctcag taggggtcat atcaacaaga gcaccccat tggcagcatc 180
aaacatacta gtctccatgt tgctaagtcc ctcatagaaa attaaagatg gagatgctta 240
aaaatatggt ggngaggaca acttgcacac aatttcttg 279

<210> 1670
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1670

tgttggtaca tacgacatcc tcacggatca gtaccaagtc cttgctctct tgcaattctg 60
tgtaaaagga cacaatatag taaggagccg cttgtgttcc cctggccttg taatcttcaa 120
gacctgtaga aaccatgtgt ggcgtctgga ctgcaagaaa aaaacgaata cgtattgtga 180
gactacgatg gaagtgttga aaaagaaaac actcggaata aataaatcat tctttacatg 240

tctttttaat aatatttcac gttctgtaag tagaaaattt gttaagagga agcatgtcca 300
 taactatgtg cagggagaga ttagaattcg atttcttgat aggtaaggta tatccaaagg 360
 gtgtcaacag tagtttatat gaatctagaa actgtccagg acctagtggc aaatattaac 420
 atctttntat atatgtaact aanactgcat ctctttctcc aggctcgga 470

<210> 1671
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 1671

attttagtaa tgaccacta acctagagaa aaataaataa atgccattaa cctaggggaat 60
 taatactaac taaatggctg agtgtaactg aaatcgttgg caacccaaaag tcacccccaa 120
 cagcctacaa gtcagtcacc atttggctct ccaaaggct gatgcctacg ttgccaattg 180
 ggcccttatt acaacttgaa ctaaagccct cttagttagt taacccaaaa catatTTTTg 240
 gtcacccaac tttaacagga ttggggccatt atttagacaa actaaacact ctaaaattga 300
 aataaagtgg tgtcatttag tcttccattt gcgccatgat acaactcaaa ccttgggactt 360
 tctccttgaa cttggcttga ttcaaata t 391

<210> 1672
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1672

acgagcgtct cgatatacta cgggacataa tcggacatcc gggtaaaaag ttattgttat 60
 ttgaatttgc tcataggttc tgTTTTcaat tacgatcgcc tcaatatatt atgggattca 120
 ttccgacatc cgagtaaaaa ttatttgcca ttgaatttg ctacgagctt ccgatntcaa 180
 ttacgagcgt cttgatatac aacgaaaaac aatccgacat ccgagtaaaa agttattgtc 240
 gttagaatat gcttagagct tctgttttca attacgagcg tctcgatata ttacgggact 300
 caatccgaca tccgagtaaa aagtatttgc catttgaatt tgctcatagc ttctgtnttc 360
 aattacgata gcctcgatat atcatgggat tcattcggac atccgagtta aaatttattg 420

<210> 1673
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 1673

agctatgacc gattctcaac atcatgaaaa ttatgcagtg catgtgagct gatgtagaat 60
 atactttgat attgatgggtg tttagctgta cataaaaata taatgtatgg actagttaat 120
 ttaagcacat tacacccttt attgactccg tgggtactcg gagaatacac aagtatcaca 180
 ttccttgaga gttgagaccg ctgactcaaa gccagttgta actgtgaggc caagaaactt 240
 ttgagcaaat cctgtaggtg aaaagataaa gaaagatggt ttgtgtacaa tattatgcga 300
 acacaaagga ttctgtacta taaagatggt tgaaaagatg aatacatatg tgatatgtct 360
 atgttgcgag ccttctctat atgctatctt ctatgctata caaccgaat aattaatgat 420
 ggaataaaac agattaatgt actgttaatg a 451

<210> 1674
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1674

gagaatcaag tcgtccaagc attgatgctg aacacttcca catatctcgc tttccaaata 60
 aaccagtaga caatggaaaa acgcactcct tcgttggatg ttggtttatt ttgaaggaaa 120
 atactttca tatttccatt atctctttca tccaactttt accttttttt ttttcattta 180
 tctatttctt tatttggtat cacatcttct ctacctttt ttcctcata tatcccatcg 240
 atttttttt ctctctacct tctttttctt ccttaccttg naatctctat ttatttcttt 300
 ctaatccacc caaatgaga tatatgaata tgatcataac tctaattcaa attggacatt 360
 gcaaactcaa atataattaa actcgactat tgcttaaccc taccattata gagtcgntaa 420
 ctttgtagct tacattnta tgac 444

<210> 1675
 <211> 382

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1675

 agcttggagc ttggagttgc ttgctttgag gaagactaat atagctggta ttttccaatg 60
 tatgggattt ttatttatgt ttatgtatct cttaaggtt ttgtaagaca cacaagtgtc 120
 aaaagctttg tatttgtttg cttatgtaat ataagtttat attttaattt tgggtgtagtt 180
 aaattatgat gtacttatat actaagtttt ataatttagt aagataatga aaccacattc 240
 aaatctccaa ctcatcacac gtgagttcca catcaagtat aaaaatgatc taattgagct 300
 ctttttgnga gaaaaaaaac acaaaccata taggtatcac tttaaagctt tagtctcagt 360
 atcagtacca aaattaagtt ag 382

<210> 1676
 <211> 156
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1676

 tgtttctctgc ataattgggt attttgtgtc attntactct caattntgag tccaatttgg 60
 gagaataaga gacctgagan tttagtttag aaaatcagat gacattgttg atgatgattt 120
 gtgatcatat ttgaaattgc agttacaaga aaatta 156

<210> 1677
 <211> 346
 <212> DNA
 <213> Glycine max

 <400> 1677

 agcgttatga tgaatcaaca atgattcaga ggtgttttga tgataacaat gatgacaaca 60
 aaagatgatg aacaaaaagc tcaagtgaat caaagaacat ccatctcaag atcaagattc 120
 aagactcatg aagaaagcct acaacaaga atcaagattc aagatctcaa gaatcaagat 180
 caagattcaa gacttaagag attcaagatc tcaagatcaa gattcaagac tcaggattca 240
 agaatgaaga gaaaactcaa tcaagataag tattaataag gttttcaaaa ctttgaatag 300
 cacattagtt tttgacaaaa cttttaccac agaggtttta ctctct 346

<210> 1678
 <211> 436
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1678

tgcagcaaat tctaacgaca gataactttc actcggaagt tcgattgagt cccgtaatat 60
 atcgacacgc tcgaaattta aaaccgaagc tcatagcaaa ttcgaacgac aataactttt 120
 cattcggaag tctgattgag tcccataaca tatcgagacg ctcaaaatag aaaacagaag 180
 ctcgttgcaa attcgaacga caataacggt ttactcggtat gtccgattga gccccgtaat 240
 atatagagac gctcgaaatt tanaaccgaa gctcgcagca nattctaacg acaataactt 300
 ttcactcgga agtccgattg agtcctgtaa tatatcgaga cgctcgaaat ttaaaaccga 360
 ggctcgtagc aaatacgaac gacaataact tttaactcgg aagtacgaat gagtcccgtt 420
 acatattgag acgctc 436

<210> 1679
 <211> 299
 <212> DNA
 <213> Glycine max

 <400> 1679

aacatccagg taattccaca ttcaatcatc atggactatt tataccaagc atcactgggg 60
 acaggcaciaa tactctgtgc aaaacacaac tgagaatcgc agcttttcat atacaactac 120
 cccataaaca ttttcttggg tccaattcca taaccgttgg atcaactcga aaattgtact 180
 ggaattctct agtacataag tccacatttt gaccgtaggg atctgctagc aaatgtccag 240
 aaccgatat gcactaccct tttcacaatt agccatacac aagcatgttt ctgcactta 299

<210> 1680
 <211> 346
 <212> DNA
 <213> Glycine max

 <400> 1680

agcttagctc aaccttgggt agcttagcgg accaaatcat ccttagatgc aagggttggg 60

cgcttagcgc ttaagactcg tagcttatcg catgaataga actgcgctta gcgcgaggct 120
 tgcgcttatc gaaaggactt attttttcaa aaaatatttt ctaagttatt tttcagtcct 180
 ttttccatga aattgaaacc cttatgttaa gcattcaaaa attggctgat atactcctat 240
 gtacagatta catagcaagt tccaaatgat caaatgcatg agaaacaaaa aataacacac 300
 attgaaacta tggtgcctcc cacggagtgc ttctttaacg tcatta 346

<210> 1681
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1681

agctntataa aacagatata catattccct ttttctattc tttttaaaaa aatgaaaggc 60
 tatatataga gagctagcgg gtgctatacg agtccaaccc agctttaaaa tcaaagtaca 120
 ttaatacctt ctatctatct atttcccca caaaatttca atgtgtctat atatgcaatt 180
 atacattcag caatgatatt gagttacaaa gcatatacaa aaggatacaa agatgtcatt 240
 gaagctgtga ctctcacgtg aaacaaagta tagagagggt tccttggtta attttttatc 300
 gaatgaaatg gctgctgtga acgaacggct aaatggttat ttggaggcca tattgga 357

<210> 1682
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1682

taatgccgac ttaatccttg gagatgctct aatgtccgac tttcttggtt gaacatggat 60
 tgcacaacgc ttcttgaagc ctgagtatag aagacgttct gggtctccaa ttagtcatt 120
 ggcgcagtan aggaaatgtg attaacgatt gtcacgtgtc tattttgggt ctgtaaaaaa 180
 gttggatatc cncaaactg catcgatgt gtactaagta atgtgctata gaaataacgt 240
 gccacagaag tactcacatt atgtttaacg tatctcaatt aatggaggag taaaatagga 300
 atcattctac acacgtttac ggatgctatc anagtttttt ttttatatat attttcagga 360
 acctgaatga cactgaatta tcatttgacg tgtcagagag actatttatt ctaacattaa 420

<210> 1683
 <211> 420
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1683

agcttcttaa gcaagtntcc accagattct tacctcaata catcattgca ctaaaaaaag 60
 aaagtagcat tgtgtattta tcgctatata tttcgtaaaa gttttaaaat ttttgggtcta 120
 tgtatatact atttatttgt tctaacaagt tagtatttgg agcccaaaaa attatagtag 180
 catttagtga tcttagaggt caagaaagga aattagcata atataattca agcaacataa 240
 tttgaggga aaaagggtga gaaaataagt gaagcaagaa ttagcaatag ataagttgca 300
 accttgata ctaggtntgg tatgaattgg gcacaatagt atgaatcatt atatatattc 360
 attggtcact ttgctaaggg tcatgaattt ctttctatac ccaacataat ttcttctaca 420

<210> 1684
 <211> 468
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1684

cgtgtgtatg cactgggtcgt tcattgcca naaaaagtat atatgagacc ctacatgatc 60
 tcatttttct tatagtatct ttcttaaaga gaggttaatt tattttttct taaaagtact 120
 tccatattaa tatcacacat gtatctataa ttacttatct agttatcatc ttatgacaca 180
 aatccaatgt ttaatgtaaa atactgaaga acacaaaggg aaggatgatga gttgaggctg 240
 aggtcccttc tccaactaaa gtgatgaggt attttaccac agaaaatctc acctgtcgat 300
 caccagtcct aattcttttg attattngga aaaatggtag ggtcatggga gaggggtacc 360
 acaggtttca ctttcacgtg aattggtgtt ccaaaatgca attcagtgtt gaagggataa 420
 aaaactgaat attaataact aaataatggt gaaaacaaca aaattagc 468

<210> 1685
 <211> 434
 <212> DNA

<213> Glycine max

<400> 1685

gcaagcttac agaaattaaa gtcttattaa gtttagtatg accactctaa ccatccaacg 60
atagacactg tcataccaat taagtaagcg cgtagggcaa tagtgaatga ataaagacat 120
acgaaacttc atagaaatta aaactctctt taagtttcga agagatagta tggatcatagt 180
taaaaaaaag aagaagatat gaagcttcac agaaacgcta taagcttaag cctgtataag 240
ttagcttggg tgattagaat ggagacccaa cactcctcca tctacaatca taaaaacctt 300
tattctaagt tctgatggct gtgcgatcat tctcctacga tgtgttcctc agcttccgag 360
gggaagatac tcgttatggg ttactgggct atctctacaa tgtcctccgg gaaagggaaa 420
ttgacacctt catt 434

<210> 1686

<211> 222

<212> DNA

<213> Glycine max

<400> 1686

tgtcagaatc tggcatatat atatcaacat gacccttttt aattaaataa atatattata 60
tttaataaaa agcccttagt tgtctctgct taattatttc ctttatattg taatctatct 120
ccaaaaaagc ccttttaatt cctaaatcat atccttcact gaactgctct aacatcaatg 180
agtaaacaat cctcgatcac tgcttgccct ctttctactt tt 222

<210> 1687

<211> 318

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1687

agcttcacaa catccaggta attccacatt caatcatcat ggactaacia aaccaagcaa 60
aacagggcaa aggcagaaaa ctctgcccc aacacaactc agaatcacag cttttcacat 120
acaaataccc cagtaacatt tccttcgttc caattcggtta accgttggat caactcgaaa 180
attgtactgg aattctctag tacataagtc tacattttga ccggtgggat ctgctagcaa 240
atgtccagaa ccccatatgt actacccttt tcacaattag ccatacacia gcatttttct 300

gcacttatac anaattct

318

<210> 1688
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1688

gagctcacac aacatccagt gaagtacaca ttctatcatc atggactaac aaaaccgagc 60
ataacagggc aaaggcagaa aactctgccc aaaacacaac tcagaatcac agctttttcac 120
atacaaatac ccagtaaca tttccttcgt tccaattcgt taaccgttgg atcaactcga 180
aaatgggact ggaactctct agtacataag tctacattta gaccgatggg atctgctagc 240
aaatgtgcag aaccccatat gactaccctt tgcacaatta gccatacacc aagcattttc 300
tgcacttata caaaattctg ctgcacattt ccaacaacan aattctgcat aaagtgcaga 360
tttcgaagac cactctgtcc ctcatccaaa ttgccc aaa ttgaatccta caagtcccaa 420
atcatgtatg aatcatgtct aaacc 445

<210> 1689
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1689

ctaagcttct anaagacttg tgtaatcgat taagaataga tggtaatcaa ttaaaacaaa 60
gagttatgca ctgaagatgt ttcttaactt agaaactatc ttctacttc tatatgggtga 120
tgcattgatgt acacatagat agattaagac taaaaggcaa caatcaatac aaatgtcact 180
cagtaaggag ttgggcatgt aaaaagacaa aactcttcat agcttgatct tcatgttgct 240
ccccttatct ctaacaatct cctcattttc aactttgaag atgccaaact ctaatttcca 300
ttgagtgcac ttggagaggc ttgagagtag agacttatct tatgatagac ctgaaaatga 360
ctaaacacta tgggtgaagag aagtgttaaa tcatatcatc atcataatag agtgggtcaaa 420
taaagtgtgc aaactgtatg tataaatgca atacttc 457

<210> 1690
 <211> 402
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1690

 agctcggcct caacttctga tgtaaccatg tctcttccat tcgcatggaa ctctctatat 60
 gacatgctcc catcctcact ggactccatc aatcatctcc ctccaacctg cacacacaca 120
 caccacataa ccaccctttc cacatatgtt ccaatttttt tttgtaaccc tttcatgctt 180
 cgatgccatt gcacactcgt aattcacatt tcagaanagg ctaaacaaaa actcatacac 240
 acatgttcaa aatcttcaga atcacaaaga agaacacagt tccccatttc acacggcatt 300
 gctcaaaaact gatcctagca atgccttatg gcttatagga ttcaactccc tgcaaaaact 360
 cgttntgggtg aaatgggggtt ccatgataac agaaaaatca tc 402

<210> 1691
 <211> 433
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1691

 tcggttagag aaaatctaca acctcaagag taccctgtgg cattcaacac tcggtgaaac 60
 ttgaaaatct cactctctgg ggtgtgccaa ctgaagttaa gcagagcatt gatcccaatg 120
 gaggacaaga gcattggatg atccaacatg tgcctagcgt tgctattgct gattcgttta 180
 tgggtccagag attagaagaa tttctagagg aggaaaggat gaagatatta ngaattagaa 240
 gatatgttct ttcctcttgg taatatttct atagattgat aattttgtcc cttattcttt 300
 tttcaattat aaaaatgaaa ctgtttccta attactaatc tgatttcttt acttttgtct 360
 cccttccatt acttttcttt gtctacatat ctcccgtgtc tcatagaagt tagagataaa 420
 atngtcttat agc 433

<210> 1692
 <211> 400
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 1692

agcttgaagg anaacttaat gccttgggtca acctagtaac ccagcttgcc atgaataaga 60
aatctacgct tgttgcaaga gtctgtgggtc tatgttcttc tgcagatcac catacaaacc 120
tggtgccttc tttgtagcaa tctggagtca atgagcaacc tgaagcttat gctgcaaaca 180
tttataatag acctcctcag tagcaaaacc aataacaaca gaataattat gacctttcaa 240
gtaatagata caatccaggt tggaggaatc atccaaatct gagatggaca agtcctccac 300
aaaaacaaca gtctgtccct cattntcaga atgctgtctgg tccaagcaag ccatatgttc 360
ctcctcaata cagcaatagg aaccacaaca gtcaccacaa 400

<210> 1693

<211> 480

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1693

gcttctaagg cacttttctc aagaaagctt ctcaaggaag ctacctagtc tataaataga 60
agcatgtgta acacttggtg taactttgat gaatgagagt cttgtgagac acaactcana 120
gttcaacttc tctccctttt tcttcttca atttcgtgtc cccctctc tctttctctc 180
cctctttctt ttctccatt gaagcaccct ctccaagctt cttatccaag gctcatcttg 240
gtggtgaagc tccttcttcc atggcttatt ccctagtggg tggcgctcc tctcaccttt 300
tctctttgtt ctccgctgc atctccatgg tggaaaatca ccattaaagg acctcattga 360
agctcanaga tccagcctcc atagaagccc cacaagcaag cttccatcac gggcggcccc 420
catgatgtgc aaattcaaaa cgagcacgct ttcccgccat atggctggcc tctcaactat 480

<210> 1694

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1694

agcttgctca ctagcttttc actttcattt gcttttgacc ttgttacatc aacacacttt 60
attcttttat tttctttttt ttaacatata acttgtgtgt tgtgtgtgt gatgctttct 120

ctctttcttt gcatcccaat tagttccact cccccaatt tggggtaaatt ttgctttgaa 180
ctatatgctc tcctagaatc taaacaaggt atcaggagat aattatttaa gttcagggtt 240
caatttatga caaaatcatt cagctcaaaa aggggtgcaa ggatataatt atcattcaag 300
gtaagctttt tggcaaaaag gcttgtgtat gtacaatcat ggccttcac atgttctcgt 360
ttatacattt cattctaaaa attagagaat catgcanaga ttattactca cagctagtcg 420
ttcactca 428

<210> 1695
<211> 462
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1695

gtagcttcaa tgcaacgaaa catgcttatg gctaggaatc caaaatttgg ttttaggatt 60
agaaaagcat gaaaataggg atttgtttgt aagaatttgg gctgccccat gattggtact 120
tcgcacctaa gtaacgtggg aaatgctttt caatgggtgtg tagatatatg tgtaaataata 180
aagggcatga aattctttgt aaaggggtgaa ggaatattga ggtcccttcc taaatgaatg 240
tatgatacca cgggattccc ttttgaatgc aagtatgtgc ataattgttaa atatcttgcc 300
aatatgcata agtgtgagtg caacaatgaa agtttgtatg gtatatatan tttgagtggtg 360
tgtaagtagt ttgtgatagc aagtgtttat gacatagtta agtgtaaatt ttgacgcaat 420
gccttaagcg tgagaatgtg tgttcttttc aaaatgcata ta 462

<210> 1696
<211> 454
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1696

agcttggttc gaggtactta cccgttgaag atcgaagaac gatgaagatc gaatgaagaa 60
tgtcgaagaa cggtcgaaaa ccttcgcgaa attcctcacg gaaaacgtta cggaacgtt 120
tcggaaccgc ctcggttac attttcttca cggaacaat ttttccaagc aaattcgaaa 180
gagagagaag tacctaaggg gctgaaccct ttttctcttc acttctctcc ttatttatag 240

cacaataggg gaggtggttg ccgccagct. cgcccaggcg agccaggttg cttcctccag 300
aagcaacagc cttctggagg aatattctgg agggcccaag tgggcctggg tgctatctgc 360
acccccattn ttactaagta cacctccctc tgcttttttg gggattcttt tccgaaagta 420
ccgatcatac gactntcata cgatacttgt ttct 454

<210> 1697
<211> 438
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1697

tataaagaga catanaataa aggaacagag ggaccgaatg tttgtgggaa agaaggggtct 60
ggtgctgcct tcttttggtg tagtcctgca tctagatgta tccactttga tctatgacca 120
tggtccacac tctatactac tccataataa caaggtcatt gcttgcgaaa tttgtataag 180
atttttaatt tgtaaaaatc agttccttta gaacaagagc atgattaatt ccggtgaaca 240
aattgtgtta gttagtggga gaaggctntc ttgttggtga tgtggttctg atttattatg 300
atgaaataaa ctgcttctcc tgcaccttag ctaatgatag tggtaggttt attggctaaa 360
cttacgtttg tgggtgcattt gagggactnt ggcgatgtat ttgttttccc aaatacaagt 420
ataatggagg catctatg 438

<210> 1698
<211> 463
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1698

tagcacatca aattatgatt tcataaaaaat aaacgttatg aaataatttt aaatttataa 60
gttaacataa tacttataaa aaaaataaaa ataatgaaac tttttaaatt tagtatcaaa 120
gtgaaacaag acaaacataa tggatcaaaa ataatattaa atctttttat ttttttattt 180
tttcacctct cactcaataa taaaaatata attctattac aaatgaaaaa gttatcctan 240
aaatgtcatc tcattatata cttttacgac aaaattatat ttttatttat attttaattt 300
tttcacttct catttaagca atataaacat attttcatta tatttccatc aaaagaataa 360

tttcaggata cgattaanag gcacattata tttccatcan aaagataatt tcaggatacg 420
 attaanagac acccagatga atagtgccaa tagcaactcc ccc 463

<210> 1699
 <211> 234
 <212> DNA
 <213> Glycine max

<400> 1699

actctcatca atcatctttc tccatcctgc gcacacacac ggcggataac caccctttcc 60
 agatctgttc caatttttta tagtcaccct ttcattgcttc gatgccatcg cactctcgta 120
 attcgcatctt cagagcacgc tagcctcaag ctctgtctca cttgtcctac atcttcagat 180
 tgacatacat taactcacat cgccgtttac acagtattgc tcaaagctga tcct 234

<210> 1700
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1700

cgccaagaca acgcacacgt nctctnnttt aggtcctttg actnttgaat atatatcatt 60
 tgtccaatca gtagaatctt ggggtgctttg taaattttgc gaactctctg cttcaaccat 120
 tttatttttt agttcatcct acataaatac accttataaa ttattatcat acatcaatat 180
 cctgaatact tcaatatcac taaacaaaac tcattctccac attagttact cccctcacc 240
 ccataacctt ctattagaaa attgagcaaa acaaagaana agtattgaaa taaaaattaa 300
 aattcttaca attacaatag cagccttttc agtaataatg cttccatctt ttcgagttcg 360
 agtgtcaata taaattttctg ccctagaagg ttgcacttcc ttagcctttg tagtctaaca 420
 ttagttaaaa aatcaatca tcctatttgt attaagcaat ttaat 465

<210> 1701
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 1701

agcttatgcc tctacagcgc caacttcatt gttaatcacc taccacaaat cttcacccca 60

gatcttggcc caatcggttca cctcatactc gttccttggtg gcaatgccaa actccgtgcc 120
 aacgccacct ttgactgcca ggtactctct tctccaatct tatacacact cttcacctat 180
 ttttatttaa ttctgatgac aattgcagca tgggccatat gagtgcttgc tgaacacaga 240
 tgacgcctgt gcaattcaca tctggcctca actcgtaagt aacaattgct gtgcctttgc 300
 ccctgtcttt ctttctttct tttttcttta ttctttgatt cgggatcaga acttaagaat 360
 ggcttttcta ttattataat attatgttat tattacggat tattcagcat cga 413

<210> 1702
 <211> 329
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1702

tgatncaaat agggaatgag aaaagggtata gtatttttta gaagtttaaa tatgttgtgn 60
 ttttgntatt gntaaacaga ttgttgggct gcatgaaagt tataactaaa taacattatt 120
 ttgttaattg gtttataatg ttgactggac agctgaaaaa ttaaaactgt ggagaatgtt 180
 taaagtttta atttatatgg atgaataggt ggattttta atgatatgag gtatcgatta 240
 atgatgtata gattaatctt gtttataaga atgattttta tttgggtttg aatagagtaa 300
 agacaagaag aaattttaat attttttga 329

<210> 1703
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1703

agctttgatt tcctttgttc cgganacctt tcttttctca tgtgcacca aaccaatct 60
 ccgggttcga agacaacctt ctttctccct ttgttggcct gtttagcata gcttttattt 120
 ttctctcaa tttgatcttt gactctctca tgaagcttct tcacatagtc cgcttttgct 180
 tgaccttctt tatgcttaaa aacagaaaca ttaggcatag gcaaaagatc aagaggagtt 240
 agtgggttaa aaccataaac aacttcaaaa ggagaacaat tagtggtgct atgaatagct 300
 ctattgtaag caaattcaac atggggtaaa caagcttccc aagtttttaa gttcttctc 360

aaaactgtcc taagcaaaga tcccaaagtc ctattaacaa c

401

<210> 1704
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1704

tccagattgg tataccatgc cactgctgct ctggctaagc tgtcttgaaa gaaatgcac 60
aacagctttt cgttcgtaga atatgcccc atcttttggc aatcatccg aagatgacct 120
tttggacatg tcatcccttt gtatttatca aaatctggta ctttaaactt gggagggtgc 180
gcaatatgcc cttttgctgg cgagtgaagg cgtggctcac ggtgctgctt tccaaaggaa 240
gaaagatgcg cggagtcacc accaacgttt atttgtggga aacgtcggaa aaaccgaagg 300
aaaccggtcg aatgaaaat tctaagttcg ggagttgtat ttacgtttga ggaaggtatt 360
agcacctctt acgtttgtct cataggacaa caacctattn ttcagaattg tggaaattgt 420
gttatcttaa cttttagttc tttttat 447

<210> 1705
<211> 258
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1705

agcttgaatn tgcattgatg tgattatgat actactacaa aaaacagttt taacatcggc 60
ttattaacat tggttttgtc caaaaccgat gttaagttaa acgcggtgac atatttgtaa 120
ataaagtatc cttcttaaca tcggtttttc caaaaaaccg atgttaacta atgatgttaa 180
catcggttat tggaaaaccg atgttaacgt atgataatgt aacattgatt ttttggaaaa 240
ccgatgttaa tgcataa 258

<210> 1706
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 1706

ntagcttctt taggaatctt ctcaggaggt gatcttagtt ataagagggg tgtgtgtagc 60
taagctctag cttcccaagg aagttttctc acagaagctt ctcaaggaag ttntctcaag 120
aaagcttctc aaggaagcta ccttgtctat aaatagaagc atgtgtaaca cttgttcgaa 180
ctttgatgaa tgagagtctt gtgagacaca actcaaagtt caacttctct ccttatttct 240
tccttcaatt tcatgctccc cctctctctt ttctctccct tttcttttct ctccattgaa 300
gcacctctc caagcttctt atccaaggct catcttggtg gtgaagctcc ttcttccatg 360
gcttattccc tagtggatgg cgctcctct cactcttct cctttgtctt ctgctgcac 420
tccatggtgg aaaatcaaca ttaaaggacc tcattg 456

<210> 1707

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1707

agctttntga acaacgttaa ggggacatca tgaatgtgcc cttcaatcca aaaacctact 60
aaaaatgaat ctgaaatcca caaataatga accaacaaca aatctacaca atttgcaagc 120
aaggaaagat cacaagccta cgcacatca ctccaattaa atgtctcggc aattaaattc 180
aaactagata acctcagcag caacagaatt caaattcttc gaattggaac cagaaacccc 240
atcctgtttc gaagtagtct cactctgacc taaaatctgg cctttactca agcctaattgc 300
atccttgctg ctccaacaag gccggtacag attcctcctt cttatggaat atcttccact 360
cc 362

<210> 1708

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1708

nttccacat aactcttcca atctttgatg gagagaatta tgatctttgg gaagtgaaaa 60
tgcaatccta catggagtct ttggatttat gggatgetgt ggaagaggat tatgaaatat 120

atccgctgca tgaaaatccc accatgtccc aaattaaata tcacaaggaa agaaagatga 180
 agaatgcaaa ggcgaggtca tgtttgttca ctggtgtttc acaaatagata ttcatacagaa 240
 tcatgactct taaatcaccc aaagcaattt gggattatct gaaagaggaa tacgctgaag 300
 atgatagaat acgaagcatg caagtgtgta atttaaggag ggaatttgag cttcaaagga 360
 tgcaagagtc agagacaatc aaagaatact c 391

<210> 1709
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1709

agcttataca cggaaaatgt aattatgaaa ttgagatgcc cgaagaaaca ccatttccta 60
 gttaaccatg cattaggtac catgttcaat tattttgttt tgttgttggtg tgtttttttt 120
 ttttgttaga aatgggttta tgatcccaac atgggtggct catggtgcct aacacatgca 180
 actaagaatg tagtgtgaag tttcacgctt cccctttttt gtttttgttt tgtagaggaa 240
 aacgcaagga tgagcaaaca tgaaaacaaa tggatgcaa ttttgcagat caaaaagttg 300
 gttgaacgca tatgcatgat gatgccatga ctcatgcaaa atgtgagcct ggaatatgat 360
 aacggacaaa tgcaggaacg atatgttcat tatgatgtta tgaagagatg cttatgcat 420
 gcatgatatg aacgcattnt acggacacg 449

<210> 1710
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 1710

tatgcgcaca cttctttacg aacattcact tgcacaagac attcttataa ctaagaaaaa 60
 tgcacccata tacaatcaag gcaccttcgt tacctagatt atttacatgt acttccaagg 120
 tgtatttggtt acctacatca cacacatttc ctttgctaaa ttcacatata tgcatactct 180
 aagcactttg gctatcaaaa attgcatacg tgcacatctt ggtatttcta atacctatac 240
 atacacaaac ttcataatga atcttgacta tctacacaat aaagtgttac atttcatgct 300
 tttttcaagt gttttttttt actacctaata gcgcgatgca aattcaagta tattttcttt 360

tgctcactaa aattgtattc aaattaaaag ggtattttgt aatgtatttt ctttacataa 420
catgcaacat atttataga 439

<210> 1711
<211> 305
<212> DNA
<213> Glycine max

<400> 1711

agcttacgac cgcctgaaag acaattacac atcactatcg ggaagaactt tatgtacacg 60
ttttttttct aacatacatc cttgtatcat gtgggcatag aatgtgggtc tggagcacgt 120
acgttctatt ggagcacggg atcataacca cgcagcatga ttttgcgaaa actctagggtg 180
attgtcttca gctagctctt ggtcacacga actgcagcgt ccatacatta aaaataactt 240
acatgggatt cttttatata gaaaaataga agaactcatc agttctatac ttagagcgtt 300
aatga 305

<210> 1712
<211> 478
<212> DNA
<213> Glycine max

<400> 1712

gacactatca aactgaagct cgtgtccagg aggatatcca tgtttctgta acattcatca 60
acaatgtgat ttgtgaatcc agaatgtgta caaaccttgt ttcctttccc attagaactc 120
cctctgccag agcctccttg gctacttctt cctcctctag aagtatagtt tggaggaaaa 180
ccacttttcc tataacatct gccactgtg tgattatctc cacaaacatc aagttgaaca 240
aattgagctt atctttcatt gactccgcta ccacattagg cggcaccacc gactcctttc 300
cctctagcat caaaatgtgc agcatcttat tccatgagct tctttgatag agtttacagt 360
tatgccccac ctttgtcgcg gtttgtcgga accaattatc atttctttca tccacaatgg 420
atctccattt acatgcctct tgtcctatgt atcttagaat attcatcata aacacata 478

<210> 1713
<211> 592
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1713

cgctcacgtg gntcgttatt ttggtgtnct ataatatctt accgtgcgga tantcnnnnc 60
cacaaggggc ggggtgggatt gaaaccatga agcccctgcg ganacctgna gtcctcccga 120
gngcatccgc gcgcatgtga caaagttcct cgacatgcta gagcccatth acacacactc 180
tctctgatga cgaagactcg gcgcccctgag acgctcgatt aggaagatgc ctatagaagc 240
tagagcttag ctgcacatac ctctttaata gctaagctca gcgccttgag atgagacgct 300
cgagctgagc tacgcacccc ctataatagg tagacgcacc gccgggacaa aagacatggg 360
gataataaga gagatgggct tagtaciaag acaacgcaga atgccgcgta agacaaggct 420
aacacccgat actcctagag tggctcttagt gatgcgccta ggcgagagaa atcctattct 480
aatcatgacc tccaatgacg gctcatctct aagccatggg tgcatacttc cgtacgctga 540
tggagacgga gcgctgcctg gaacctatcc aactcagtgg aggtgaacca gg 592

<210> 1714
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1714

agatgaggaa gtgttgaagg gtgaaacttc ctgcttttat tggtgaccac agagtgggtac 60
ctggagatat gtcgcgngg tcacgagacc ttggggacgt caggtggggg gctattgccc 120
aaaaccaagc ttgaccaatc ccgacccaac ccgggcatag tcggtcagtg agaacctgtg 180
atgtacctaa gcaggcgagc tcctggcagt caacagataa taggaaaaca agaccacaaa 240
gcaaggaggc ttgtggtggc tggccagctg tgaattttgt gtaatatgtg gattgtggcc 300
tctggtaatc gattaccaag ggtgggtaat cgattacaag gcttaaaaat gaagacagga 360
ggctaagatg gtctctggta atcgattacc acgngtgta atcgattacc aggcttgaaa 420
a 421

<210> 1715
<211> 448
<212> DNA
<213> Glycine max

<400> 1715
 ctgcatgctt actgccatcc caaataattc tcatactact atctcataca attccctagc 60
 gcgattgcta ctttccccac cacaaatgcc atcgaagaac acaatgtgta catggcagat 120
 tttctccaac tcctcatata atgtccactg gaaacgcatg atcaccacca ccacccacca 180
 acacgcttca ccttcctact ttccctctcc ttccatgcaa gatcttcctc gccagggttc 240
 cgattcctca ttcacttttt ctacctccaa atacattctt ttccttttcc tctgttttca 300
 ttttaccaat attttatctc gcaggcactc caactcttcc actccaagac gacgccgttg 360
 ctcgaggact agctaagtct ttgcccgaac acgaatccat aatttaatta attattctaa 420
 agcctcgaca ttcctcttat tttttata 448

<210> 1716
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1716

cgcttctaca tttatcacct ttatagatgg atgttcgtga tatatgaata tttatttgct 60
 tcataacaaa aataaagcat tggatccctt caaagtcttt aaggctgaag ttgagaacca 120
 atgtggttaag aaaataaaaa tagtgagatt agatagaggt ggagaatatt atggcaaata 180
 tactgagaat ggacaagcac ctggtccttt tgcaaagttt cttcaagaac ataggattgt 240
 tgcccgttac actatgcctg gttctccaaa tcaaatgggt gtggcaaaaa gaaggaaccg 300
 aacattattg gacacgttac ggagtatgct tagcaactct gatcttccta aatccttggtg 360
 ggctgaagca ctaaagacgg cagtgtatat attaaactat gttccaacca aggctgtcca 420
 aaagacacct tntgagttgt ttaaagggtg aaaacaaagt ttgaaacat 469

<210> 1717
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1717

agcttgccac ccagctcgcc cagacgagca ctgctgcttc ttccataagc aactaccttc 60

tggaggatat ttccggaggg cccaagcggg cctgcttgct atatgcaccc tcattttttac 120
 taaatacacc ccttgccctt ctttggtgat tcttttttcg taaagctacg gaaacttatg 180
 gatttcgcaa cgatacttgt tttcattctg taacgtcaca gaaccttgcg gatgacatac 240
 tcatccccctt tttttactta cggaatgtta cggaacctca ctaattgtgc aacgatgctt 300
 ccttttgatt tccgngtgt caccggaacct tacggattgc gcatcaatac ctctttttga 360
 ttaacggcat gttccggaac tttacaaatt gcctaataat 400

<210> 1718
 <211> 76
 <212> DNA
 <213> Glycine max

<400> 1718

ttctctgcga ctcatcatg aatcataaac acttgaaatc atagtggttt ctttcatttt 60
 ccttttctgc ctatat 76

<210> 1719
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1719

tgctcaccac tactagagga gaagccttta ggttgtttca tataaacctc ctcttctaaa 60
 tcaccattaa gaaaagctat tttcacatcc atttggtgca actcaaggtc aaaatgagca 120
 actaatgcca agattatacg aagataatct ttcttagata ctggagaaaa agtctttgtg 180
 taatctatct cttctttntg agtaaatcc ttagcaacaa gtcttgccat gtatctctca 240
 atgttgccca atgaatccct tttggtctta aaaaccatt tacatccaat ggcctttgcc 300
 ccattaggca tctctacaag gtccaaaact ttgttactct gcatagaatt catctcatcc 360
 ttcatgacat cataccatan nattgactct ttacaactct nggcttgatg caaaagttca 420
 ggatcatttt cagctccata ttatagcata ttcta 455

<210> 1720
 <211> 427
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1720

ctctcanagc cttgagacta cacatatcat aaacaacttt ctttatctcc tcttcagtat 60
atatttctcc ctaacatctc aatctcctct tgaacaaaa ctgtaaattt acctcttaag 120
caaaaagggt aataatctgc cacttcagtg aataaattcc tatagaaaga agtcaccatt 180
tcttctaaat ctatcgaatt aagcacccaa tagccctttt cattcaatag cctagcatat 240
aagttagatt gctttcttaa nagagtgggt caatgaaagt aatgagaatt cttatctcca 300
aatttaagcc acttgaccca agacttttga aaccacaaaa cttcttggaa caatatctgc 360
tctaactccc cacataaatac ttnttgtagc cttaaattgt acttattatc cttaatcctt 420
caacttc 427

<210> 1721

<211> 366

<212> DNA

<213> Glycine max

<400> 1721

agctttgatc taccaccatc gccgccacca ttattttagt tcttctctta ttttaatat 60
actagtactc tgatttcag ccggtgattt ggctatatta ttatgacatt tgaacaattt 120
agtatttctt tatttgcag gtgtggttga acaattatga attatgttat gtgactatgt 180
gatttttcta tatatttgat ctggatcatgt ttcttgcttc atgattagtt tatattcttc 240
catgattgtt gtgtgaatga ttagttgtat tagtatgttt catactcgtt acgcactttg 300
gctttttgtg atgccaaggg ggagagaata gggattaaat cagcactcac atgagtaata 360
acttaa 366

<210> 1722

<211> 173

<212> DNA

<213> Glycine max

<400> 1722

tacctcatgc actcctctaa tgactatggc atcatttctg gcactaaact gctgagaagt 60
ggaacccatc ttctcaatta aatttctgct tcagcaggag tcatgtcttc aagggtcca 120

ccactggcag catctatcat acttctctcc ataatactga gtccttcata aaa 173

<210> 1723
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1723

agcttgcttg tggagcttct atggaggctg gatctttgag cttcaatggg gtcctttaat 60
 ggtgattttc caccatggag atgcagcgga agacaaagga aaataggtga gaggaggcgc 120
 catccattaa ggaataagcc atggaagaag gagcttcacc accaagatga gccttggata 180
 agaagcttgg agaagatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 240
 ggagcacgaa attgaaggaa taaaagaggt atagaagtgg aactttgaag tatgtctcac 300
 aagactctca ttcatcanag ttacaacaag tgttacacat gcttctattt atagactagg 360
 tagcttcctt gagaagcttt cttgagaaaa cttccttg 398

<210> 1724
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1724

ngagatgagg aagtgttgaa gggtgaaact ttctgctntt attgntgacc acagagtggg 60
 acctggagat atgtcgcggn ggtcaggaga ccttggggac gtcaggtggg gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag tgagaacctg 180
 tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaaa caagaccaca 240
 aagcaaggag gcttgtggg gctggccagc tgtgaatttt gtgtaatatg tggattgtgg 300
 cctctggtaa tcgattacca aggggtgggta atcgattaca aggcttataa atgaagacag 360
 gaggctaaga tggctctctg taatcgatta ccacngcgtg gaatcgatta ccaggc 416

<210> 1725
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 1725

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agctntctca acaagcttct ttgagaagct agatccttat ctatccacac ccctctatta 60
actaaattaa cttccttaaa aataattacg gatgaaaata acgcaacaaa taatcaaaca 120
tcaaacataa ttactaacia tatatagata tatatatcag ggtgttacia ggagtgcatt 180
ccttgcaagc taccttgga agagcccatt atttatcaac aatttttaga ttagccttgg 240
ttgctttggt ttttagtctt cttggaactt cagaaaggat aactagtctt ttagctacia 300
gtgttgctct agccttctta aaagcaagag atgcttgctt ctgagtattg accttccttt 360
tctgtagaac aagttagaaca ttatcaacat cgttatctc agtttcactt cagtttttca 420
acttctaag 429
```

<210> 1726
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1726

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ntatatagac ttcanagctn tgatccattg agagatctca actagccgnt gtctaattagg 60
ttaggtgctt tacacgaggc atgttattat gcagagagag agtgtgggac caciaacatc 120
ttctgcagtg tatcttcata gaagtacaac ttgtcagtgt cgccttgtgc tcaaagttga 180
cttttagcat acaattcaaa tacaacgtta atagcatagg acaaaaggaa taaagaatgc 240
aagacaagac aatttgaaac ttccctctta tgcactatgg caciaattgc ttactgaacc 300
atggacctta ctttctgatg attatttcag aacttgagta ttaagtaact attccatttc 360
ctttggacta tgagccaagt gctaaagcac ttgtcttctt agaactgggc actaaggcaa 420
tatcatccaa tggctaatac tttatctatc gtccaaaggc tntctactcg 470
```

<210> 1727
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1727

agctnggatt ggattggtct gacgaggatc gatgtttagt aatttaggct acaacataga 60
acacaaagca tgattgatta gagaaatata tttatatgca ttagcttggt tgtagaaaag 120
acccaacatt tctacctact gctctcactt ttacttacct tgcattttat agtttttagc 180
ataaagggtt agtttaaatt ctgtttgaaa ttatcaatca tacatgttct ctcaacaatg 240
cttcatttat gaacttaact caggctaaca ttagttccct gtgttcaata ctgagattca 300
tccgtnttaa ttnttaaata cttgatgac cggtgtgctt tccggcaaac cgggtttccc 360
atgaatatat gtgtacgaag aataagtga aaaaaagta accgcagggg aaatccaaca 420
aagtgttaatt ctcanatgat caaagntcaa aaaatga 457

<210> 1728
<211> 450
<212> DNA
<213> Glycine max

<400> 1728

tataagaaac agaatgccta aatcatttcc aaatatgcat gtgaattagg aagcataaac 60
aagaataaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaaagatta 120
tgatgatgga tggctcaaat tcttaciaag gtaaaacttat cactttcaaa ttgagctttc 180
aaaactatca tgacatgtag aggaaaaaca atgatttcaa atcacaaaat gtctagagac 240
ttttattttc agaacaatta cccatttctt gaacatatcc tataattcaa agaaaaatat 300
gcaaagtgtg acatgcaaac agaattgacc tataatatta aactagagac ccaacaaaac 360
taacaaaact aataaattta acacaaacta actaaaaaaa attactaaac ccaacccaaa 420
gaacactctc cccatactta aacaacacat 450

<210> 1729
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1729

ataataatat aatatatata tctaatgtc acatcctatc agagcgttgt gttcccgtgt 60
cctctagcat gaggttcttc atagtcatcc acctattcat ctactcccc gaacacaaag 120
ttcaagatca ttacaggatc taaacacaaa caacaaacta ggagtgagtt atcacattcc 180

taactactag agagaaataa gacaacatat agtagtcaaa tacaatttac ttagcatatc 240
tcacattatt tcatcactgt gtcattcaaa atatactttt caatcatcaa tcacaataca 300
caagaatcac aactnecat caagacataa taacacatca atttcataat atacaattag 360
caagcgtatg caacagttat gctaagactc aagcctatat tgc 403

<210> 1730
<211> 451
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1730

cttgcttaac tcttgattct ttggcatcat caaaataatc ttggaaggca ttgctttcac 60
aaaactttat atgaaactac tcctaggatt tgaaggatgg aacaataata gtgtgtatag 120
tcagaattcg tagttaaaga ccttgggcag ctacaacact ttctgtgat ggaagtgacc 180
agaagcagga aaggatattt catctcccaa acgaagtaca ctattgattt gcttaaagaa 240
atagggaaac taggaagcat acttacagta ctatgaaata caccattnta tgaaatagta 300
tactgaaata taaatccagc tgctctaaag gtttattatc ctaagcagct gtagtgcta 360
ccaaccccaa ataactttag tgggatgact attatattga agactatagg tacaagaata 420
aataattatt taactntagt gggatgatca t 451

<210> 1731
<211> 311
<212> DNA
<213> Glycine max
<400> 1731

agctatcagc tagtgcaact ctttcacaca gtggattcta tgctgaaagg aacaaagaat 60
caccgactaa ccatgaggtc cagacatgat tgagcaatcc taaatgcaca ccacattggt 120
gaagatatag cctgtagaat aagatgatct gaatggggga aggaaagctc agcatccaac 180
ccttactctg aattggaaaa gaaaaactat cagataggcc tgctatgggt ctattagaaa 240
cagaataaaa ttagactatt aatttaaata cttgaattgt aaaaaagata atgctagatg 300
ttatgagatt g 311

<210> 1732
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1732

acactataaa actcagcttc ttggaggctg gattttcatg gtgattttca gccatggtat 60
 tgcaacgaaa gataaaggag aagaggtgag aggaggcgcc atccactaga gaataagcca 120
 tggaagaaga aacttcacca ccaagagagt gtcttggata agaagcttag agaggaagct 180
 tcaatggagg aagagaatga gagagagaga gagagagaga gagagaggcg tggaaaatga 240
 aggagaatan ggagagaagt tgaactttga agtatgtctc acaagtttct caatcatcaa 300
 agttgtaaca agtgttacac atgtttctat ttatagccta ngtcactaac tttgtgaatt 360
 tcattttcat tntatatgaa tctannagga atattccaag aatatgttaa aggcatctta 420
 gcatattccc tttagatata acaagcatgg aagatgtgac tc 462

<210> 1733
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1733

agctattgcn tacaaccttt tctccccctt tggcaacatc aaaaagccaa agaactcgga 60
 aatcaacaca gttataacaa tggagtagca agatataagt atcagagtat taaatccaat 120
 aagccaaact cataatcaag aaaataatca aaccagaatt caaataacat aaaatgtcaa 180
 caatcacaaa atatccaaga ccgaaacaca agaaaaataa gcaaagtact tagcataata 240
 atgtaaattc taagaaacta aaagccaaaa tacacggctt ataaaagata aataagcaga 300
 atctaaaatc taagaagacg gaggaggtgg tggaagatca aaactctgac gaatgtatcc 360
 gacatcctct tcaagctgtg taagacgaat gtccataccg gcaaagcgtg aatctaacga 420
 gtcanagcgg tcaccaacat ac 442

<210> 1734
 <211> 429
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1734

agctntgaat gctctattca atggagttga caagaatc ttcagactga tcaacacatg 60
cacagtggcc aaagatgcat gggagatcct gaaaaccact catgaaggaa cctccaaagt 120
gaagatgtcc agattgcaac tattggctac aaaatttgaa aatctgaaga tgaaggagga 180
agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
gggagaaaaga atgacagatg aaaagctggg gagaaagatc ctcagatcct tgcctaagag 300
atttgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagtgga 360
tgaactcatt ggttcccttc aaacctttga gctangactc tcggataggg ctgaaaagga 420
ggcacatga 429

<210> 1735

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1735

caagagaaag aacatgtgat tagaactttg actgagaatg ttagtcagtt tgtcagattg 60
attgtgaagg aatgcattga tcgtatcccg gtgagagtgt gatctttata atttgagaga 120
aacgactatc atttagtact gatTTTTGCA tgaatctctg aagtatggac tgaatgcatg 180
aaattgagga tgatgaaggc catgtttgat tgtgatagcc acttagccaa aaagctaacc 240
gcgtgcttga atgaattatc ccttgacccc agtttaagct gaatgaatta ttgattgagt 300
gaaccttgag cccatacagt gttatcttct actaccttgt cttaggttgt aggagagcat 360
catccacagg aagcttggtt caatgtaaat ntgtcctata tttgggggag taattatc 418

<210> 1736

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1736

agcttctagc caaatggact taccttgaat taattccttt gatagccctt ttcagccttg 60

tgtccctttc cttgttttga agctcactac aaaccttaag tgaaaaacca tgatattacc 120
 atatccttaa ggaatttttg agctttggaa ttgttttggg aataagtgtg ggggggtttt 180
 gtttcattgg acaacttggt ttgttggtta tgcttcatga tgtatttttg gccatacttg 240
 atgtacattg tatattgggt aaatggttga catgctgaat gaaatgttgt ttctcaaagg 300
 ctaaagagta aaaaaaaaaa aaattcgaan aaagaaaaag aaaagcaata aagttgagtg 360
 aataagatct taaatggcac aagaatgatg aaactttngg ttctactctt catgggttaa 420
 tnttatcttt acttct 436

<210> 1737
 <211> 463
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1737

tganatgagg aagtgtagaa gggtgaaact tcctgctttt attcgttgac cacagagtgg 60
 tacctggaga tatgtcacgg nggtcaagag accttgngga cgtcagggtg ggtgctattg 120
 cccaaaacca agcttgacca atcccgaccc aaccgggca tagtcagtca gtgagaacct 180
 gtgatgtacc taagcaggcg agctcctggc agtcaacaga taaaaggaac aaagaccaca 240
 aagcaaggag gcttgtggtg gctggccagt tgtgaatttt gtgtgatgta tgggttgtgg 300
 cctctggtaa tcgattacca aggggtgggtta atcgattaca aggcttataa atgaagacag 360
 gagactaaga tggctctctg taatcgatta ccacggngtg taatcgatta ccaggcttga 420
 aaacgaggtc aggaagctat gagnggcttc tggtaatcga tac 463

<210> 1738
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1738

tgcttgaagg gttgtacatg accaaatctt tagttaatcg tctttacgtt tagcagtctn 60
 tgtattcggt taaaatgcat gaagataaat cagtacgaga acaattggat ttgtttaata 120
 aactgattct tgatcttgaa aatatcgatg tcactattga tgatgaggat caagccttgt 180

tattgttggtg ctctttgctt aagagttact ctcatttcaa agagacttta ttgtttggaa 240
gagactctgt ttctcttgat gaagtgaag ttgctctgaa ttcaaaggaa ttgaatgaaa 300
gaaaggaaaa gaagtcttct ataagtgggtg aagggctgac agcaagagac aagaccttca 360
agaaagatag taaatctgat aagaagaagc ataagccaga taatcatatg aatgggtgaat 420
gaaacatggt caaatcaat tgtatcactg taaaa 455

<210> 1739
<211> 472
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1739

taccctatcc tngaacacg aanatcaaac acttttagag attattaagg ttagaaaagt 60
agaattatca gacactcaca agctctgatt tgatgggatg atcatctggg tggaccccgg 120
tacaccttat gttcactgaa gagaatgaaa gaacaaaagg gtaagtaagg cgaaactcaa 180
actcaaaatt aaaacagtga ttacaaaaac agatgcgtnt ttgagattac atgcaagaag 240
ggtagatgtg actttggcga ggatgaagag ggaatgagcc cggtgaagag ggggcatttg 300
ggagaggggtt tgagggctcg agagagacaa aaactcgta aagtgcgttc ggagttgttg 360
aaggttggag agagtgggtg tgactgaatc cataaccggt tcgggaactg caccgctctc 420
acttnccttc accattntca aattcagagg ttggagagaa agggatacca ca 472

<210> 1740
<211> 377
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1740

agctngtgct tgtntatnt aaattcctag gatcatgagc tactaggtgt gtcctactat 60
gacttgagaa acaaaagggtg atcaaataac aacagaaatt taaaaggtag taggttgctt 120
cctagtagca cttctttaac gtcttaagct ggacgcttga tgagttgtcg atcacggacc 180
tagtactttt gcttaccttt ggcgttggtg ttggctgcct gctggctgac cacaggttgt 240
aggcaacgct ccagcttttg tagatgagct aaagggcttt ggaggtggcg gcggtgcgtc 300

tggtgctgc tgcggccat cccaggctg ctgtggtttt cgcctgcgc ctacactggg 360
gcgcagcact tcttgat 377

<210> 1741
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1741

tgagatgagg aagtgttgaa gggtgaaact tncgtctttt attgttgacc acagagtggg 60
acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcagggtggg gtgctattgc 120
ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcgggtcag tgagaacctg 180
tgatgtacct aagcaagcga gctcctggca gtcaacagat aaaaggaaaa caagaccaca 240
aagcaaggag gcttgtggta gctggccagc agtgaatttt gtgtaatatg tggattatgg 300
cctctggtaa tcgattacca aggggtgggta atcgattaca aggcttanaa ttgaagacag 360
gaggctaaga tggctctctgg taaatcgata ccaaggggtg taatcgatta ccaggctcga 420
aaacaaagtc agaaagctta aggagcctct ggtaatcgat tacc 464

<210> 1742
<211> 408
<212> DNA
<213> Glycine max

<400> 1742

gcttgagaga ttgtatctag gtggttgctt tcccttaga agcctccgat gcaatatcca 60
tttggactct ctctgttacc tctccctcta tggctgcatg tcaactgaagt atttctcagt 120
gacctcaaag aatatggtaa ggttgaatgt ataactcact agtatcaaac aattgccttc 180
atctattgga cttcaaagca agcttgaaaa gctacgtcta gcatacactt acattgagaa 240
cttaccaaca agtatcaagc atcttacaaa gctgcgacat ctagatgtaa gacattgcag 300
ggagcttcga actctaccgg agcttcccc gtcactagaa aactagatg ctcgcggatg 360
tgtatcattg gagactgtaa tgttcccttc tactgctgga gaacaact 408

<210> 1743

<211> 283
 <212> DNA
 <213> Glycine max

<400> 1743

tagccctgat cagccttggtg acccttgccct tgctttgaag ctactacaa accttaagtg 60
 aataaccgtg atattaccat atccttatag aattttggag ctttggaatt gttttgggaa 120
 taagtgaggg gggtttggtg tcattggaca acttgacaag ttggtatgtg acatatgcca 180
 tggatgcact gccttggcat acatgatgat caatgttaat gttggacagg cagacttaca 240
 tgctgacctg atagtgtca agagctatac actcaaatat acg 283

<210> 1744
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 1744

gttgatgcac aatggcgtct ataggtcttt ataactctgt cgaatcattg acattaggaa 60
 tattctgttc cttccgtgta ttctggatga ttaaattgct cgagtgtacg acaaagcggg 120
 taatctataa tgctgcgctg ctgaggaaaa ttgtggagtt caaactgaat tttctgtaag 180
 cataggtttg gttcatggac tggattatat attttgcctc ttgcacgttt ttctagatga 240
 ttaaactggtt cacatttggg atacagtgtt aaatctataa tgttgtgctg ctgcatccat 300
 atccccgaaa attgtggagt tcaaattgca atctctgtca gcatagatta tgcttacgga 360
 ctgaattatg ttatgaacgt gggctctttg tatggct 397

<210> 1745
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 1745

aggcaccgc cgcattgccc ttggacttac tacgaattat tcactttgag aaccttttat 60
 atcttgatct ctttaaataa ttgagatgct cactactaac acttaagaga ctttctgat 120
 attaccatat cataattgga tcatggagca tggggaatgt gtatgcaata attgggcagt 180
 atgcttatat atgtgtacaa cttgttctgt tggctatgct gcatgatgta ttctgagcca 240

tacttgatgt acattgtata tcggataaga gaagcacatg ctgaacgaca tgttgtttct 300
cagaggctac agagta 316

<210> 1746
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1746

tcctctnttc ttcggttggc cggggcggtc cttccgtgga caaaactatt ggttgtgtcg 60
cgatgttggg ttgaggcaac gtgctgggtg ccggcccttc gaggatcggg ggatagaact 120
caacatccct tcgagcataa tcttgagggt ctttgtgggc ctcgtcaggc tgttgaggag 180
gttctctttc aaggacggga gaagcaatat ggaccgcacg gtcttgcaag acgggtggtg 240
agtagttggg cggcaatcca taagggtgaag ccgctcgggt gtatcccagg tgagggtctgc 300
catcgtgccc cagtgtgtcc cttcacgcgc ctactacgtt tgaggggagga tgggtgcgcag 360
ttgccaaagag agttgggtct gcttcggcag ccgaactgat agcggcagcg gtggccacat 420
tcttttccat gagctgcctc atccctaaca taggcttcat catg 464

<210> 1747
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1747

agcttgaat cgattacaac atttgtgtaa tcgattacca gacataaaaa ttcaaatttc 60
aagtctcaag agtcacaact cttcagaaac taattgtgta atcgattacc acatttatgt 120
aatcgattac caataaggaa ttttcgaaaa gtacacccaa gagtcacaat tgttcaagaa 180
gtttttgaat ggccatcaaa ggccataaaa taggtgactt gngatacgaa attctttaga 240
gttttttctg aacaacattg tcttatectc tcaaaaccaa attgtcttat cactctcaaa 300
atattccttg gccaaaacac ttgcaaattc aataaggat cttgatcgat cttcaattgg 360
aatatccttc tcttaaagag agaaaatgct tcttcttctt attcaaagag atctgtt 417

<210> 1748

<211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1748

ctacatttgt taagttgtct aaggtggctg tacaactgcc ctagttaatg aggaccttgg 60
 acaccatgaa tatggcgacc acaatggaga taatcatggg gtcttcctcg tggatagggt 120
 tgatgccctt gaagtcttta tcaatggaaa tggatggagg gagacttcat agtgatggta 180
 tgtaacaca gttgatgtcg atgtcctaga tgacatggag gtgatgccta cgagactaac 240
 tggactgccc tccataggaa aatcttcccg taatgggtatt gattacacct ataattagtt 300
 ggatgagctc attntcctat tcttgaggag gttcatgtc gtgtctttgc tggatgagcc 360
 tttgtctccc tctatcttat gctcgatccc ttcttctgtc gacatgttga ttctgtgct 420
 agtcctcat 429

<210> 1749
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 1749

agcttagcta cacacaccca tctaaaaact atctctcacc tccttgagaa gcttccttga 60
 gaagctagag cttagctaca cacacccctc taataactaa gctcacctcc ttaggaagag 120
 aagctagagc ttagctacac acccctataa tagctaagct ccccccatg acaaaataca 180
 tgaaaataca aaaaaatcct actacaaaga ctactcaaaa tgcctgaaa tacaaggcta 240
 aaaccctata ctgttagaat ggccaaaata caaggcccaa aagaagaaaa aaaaacctat 300
 tctaataattt acaaagaaga gtggacccaa ccttgaccca tgggctcaaa aatctaccct 360
 aaggttcatt agaaccctaa ggccttcttt atcagctc 398

<210> 1750
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1750

tctccctctn tntcctatta atagggggag gagggtagaa cataatattc aaccctcctg 60
 gtatctgaga atcacttana attagtgaga aaaattattt tcgtgaagaa natccaagcc 120
 ggggtgcttc cataatgctt ccgagagggt tctgtgggcg atttcgtgaa gaatttccac 180
 cgttcttcat cgntcttcgg tcttcaaccg gtaagttccc gaaatcgaac ttttcaattc 240
 attntatgta cccatagtga tccccacttg tttcgcattg ttttattttc atttcattta 300
 ctttccgtac ccccttttga cgtgcttttag tcattctatt taagtcattt tctcgccata 360
 tcaaaaataa aataaatttc caccgatcat ctttattgta acatacttta atatctttta 420
 aaat 424

<210> 1751
 <211> 458
 <212> DNA
 <213> Glycine max

<400> 1751

tgctctatta agacaaagaa attaaagata ttcaggattg atgatcaaga cagtctctag 60
 agtcttagga aggggtatatt aaataggaag ggaatcccaa ttgacgtatc aaatggtttg 120
 gccagatat ttaaattaat aaagttgttt ttcaagagat ttactctctg gtaatcgatt 180
 accagagaat gtaatcgatt accagtggcc aaaaatgatt tacaacagct attaaaattt 240
 gaattcaaat ttgcactgtg taatggatta cacatatatg gtaatcgagt accagcagtt 300
 actgaacatt tcaattcgca ttttatagct tgtaatcgat tacacatata ctgtattcga 360
 ttaccatagg agaatttcag ataattttct caatagtcac atctttttat ttcattctta 420
 attgccatcc aaggcttata tatatgagac ttgagaca 458

<210> 1752
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1752

tgtgagagct gaagacttct tcagacatgt agaactgggg aagactgaca acccaatagg 60
 ttcaaacgtg actcaagtgt ttgttgatca actatcacga ctaaacacgt tgggtttgaa 120
 cgctccccac actcaccctc gaggcactga gatccttata gtccttgagg gtactctcta 180

tgttggttt gtgacttcca atcaagatgg aaatcacctc ttcaacaaag tgctgaacaa 240
 gggatgatgtg tttgtgttcc caattggtct cattgatttc tgcataatg tgggatatgg 300
 caatgttgcc gccattgttg gtcttagcag ttaaaatgca ggaggcatta ctattgcaaa 360
 tgctttgttt aaagctaate cacctatntc ttctaagggt ctcaccaaag cttgccaggt 420
 ggacaagagc ataattgatt atcttgaana gcaatct 457

<210> 1753
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1753

agctattana ttgttctcat ggtggacatg atgtggccta ataatgcagt tctcagttgg 60
 ggatgatgaa gttgtgatgg ccatatcagg ttatgcggac ccatatttaa atcctttgtt 120
 ttaaaatatg cagttgtttt aagtaaaata catgtcaata tgggccttat tttagcatac 180
 atacatctct tcttactaat gctcatagtt gtcaatagca caccaaataa cagcgctatg 240
 acagaattga gaagctctgc ttcacagttt gtagtagtgg cagttgtgat tgtgatggca 300
 gacataatta cagaaaagtg tggctggagg ggggcactat tggagcgggt cacaaagaaa 360
 accta 365

<210> 1754
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1754

ntaaaaggca attcagggct ctaatggctc gtcgccatca ttagtcttcc acctaaattc 60
 acctatttat cgtcgccacc tgaagcgtct ctacaaagaa agcacaaagg caccaagaag 120
 aattttcagt ccaccagtac cggataaacc agcttgcgta agaggaataa gagaaaaagg 180
 ttntgttact cgctgtggt taaaggttta ctagggaaga agcatgaatg tgaagggggg 240
 agaaaccaac cctcgaaagc atcttgacaa actcttcatg tagagtaaag agtcacccat 300
 tatgatttat gcagaggtaa tgctaaaaaa aacagggtcaa taaaattttc gatttatggt 360

atgaagaana attaaaataa ggtgcaacca tgcctaaaac attccttctg agttctaagt 420
cgcaaccatt tactata 437

<210> 1755
<211> 388
<212> DNA
<213> Glycine max

<400> 1755

agctatacag cagaatttag taatgacca ctaacctaga attaaaataa cttaatgcca 60
ttaacctagg gaattaaaaa aaaaaactta atggctgagt gtaactgaaa ttgtggcaac 120
caaaaggctg atgcctatgt tgccaattgg gcccttatta caacttgaac taaacctaac 180
caaagccctt ttagttgatt aacccaaaac atatttttgg tcagccaact ttacaaggat 240
tgggccatta ttacacaaa ctaaacactc taaaattgaa acaaagcggg gtcatttagt 300
cctcctccat ttgggccatg acacaactca caaccttggg cttttctcct tgaaacttgg 360
gcttgatttc acacagtatg gacaacac 388

<210> 1756
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1756

tctgggtggga catcttgact tgctttccaa tctgacattc atcacanaat ctgccttctt 60
ctatnttcag attgggaatg cctctaacag cacttttgtc aaggaatttc ttcatgcctc 120
ttaagtgcag atgtccaaac ctttgatgcc atattctgac ttcatcttct ttggaggata 180
gacatgtgga ggagtagctg gtttcttggg gtgtccatag gtaacaaatg tcctttgatc 240
tgctgccctt cattagaact tcactcttct catttgtcac caagcattct gactttgtga 300
agtttacatt gaatacttca tcaaacagct gactgatgct gatcaagttt gcagtcagtc 360
ccttcaccag cagtactttg ttcagactag gaagtccatc atg 403

<210> 1757
<211> 405
<212> DNA

<213> Glycine max

<400> 1757

agcttgcttc tacacttgac tcagtcatat gcctattggt gttaagacaa agtaaattat 60
gtatgaattt aaaacaataa cttaggtaat taacaataat ctaaattgac ttacagaatc 120
cacaactgta taacaaagat gttgagacat tgaccatcgt gtgctatttc agagagatct 180
tcatgcttta tgtacaaggg gaagtcttca ttaaactt cgaacatggt agcatccac 240
ataacctgca acagcttcaa aaaaagctga gggatggtca atgtcatcag atatagggga 300
tcatcaacct catgatctgg cctatctgca ggttttgctg gtcccatagc tccctcactt 360
acagaaaaat gacatatact tacggagact tttgcttaca cacat 405

<210> 1758

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1758

cgattcagat ctaattgcc a cgtgtgtagt aggtatgtat tttatgttca tattatgcta 60
cttttgcgtt aattgtcatt taaattatgt tattttattg acatgtatga ttagagaaga 120
tccatcaata aaagtttctt tgattcaaga gaggattaac agtgaatttg cctacaacgt 180
gtcgtacaaa aaagcttggt tggcgaaaca aaaagccatt gctattgaat atggcgattg 240
agaagagtca tatgcgaaac tttcgtcttg gctagcacac atgcaaaatc attctcctga 300
attatatttt caaatactac atgacgattn tatcgttggg aatacggcta gtcggaaca 360
ccgttagttt catagagtgt tttggactct nggtcaatgt aaagaggctt tcaagtattg 420
taagccaatc atacaagttg acgacacaca tttgtacggc aaataccatg ggat 474

<210> 1759

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1759

agcttgtagg gttaaagtct cacgattgtc acgtgctcat gcaacaattg ttagccgtgg 60

ctatacgaga catcttgcca aacaaagtca agttcacgat aactcgctg tgctttttct 120
 tccatgctat atgtagcaaa gtgattgatc cagtaatggt tgatgagttg gaaaatgagg 180
 ccacaattat actatgccag ttggagatgt attttcccc tactttcttt gacatcatga 240
 ttcacttgat tgtgcatctg gttagagaaa tcaaagtctg tggtcctgtt tatctacggt 300
 ggatgtaccc ggttgagcga tacatgaaga tcttaanagg gtatacaaag aatctatatc 360
 gtccagaagc atct 374

<210> 1760
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1760

gcttggatgg tttattattg gtctggatgat agggattgag tttgagtttg ctttggggct 60
 taagagattc ttaaggctga aggcactgct agaagccatt gcaaggagtt ttaaggagaa 120
 aagttcaact atgagaaggg aggtcataag aaaaataaat ttaaaaacat aggaagtaac 180
 acttgaattc tgaagctaag taaagcctct tgaaagcaca accataaact tccaaaaatg 240
 acaagattga gaaagtatag gcttcttttg aacaacaaaa taatgcactg agttgtccaa 300
 gttatagaaa atagtgatag ttttatgtta aatgcaaatt atttctaatt tttgcatgtc 360
 actccctatt cgctatgtat ctaaactatg attntaaatt gcagttatgg tcatggcacg 420
 gtgagtcaga aaacctttat attgtgaaaa atangactga tngtgatcac ggtg 474

<210> 1761
 <211> 341
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1761

agcttgagtg agccaccata aagtgagtca attntgtaaa cacatccttg taaccctact 60
 atctttatgt atagcggaag aatctccata ttagagaatt ataatcgtgt gctccatta 120
 ctacctttaa ttactaagt tctatcttaa cttcacgaag cgggaaagtc tgataagata 180
 aatagcttgg gaagtctcta tccttaagct tgagtgagcc accatagagt gagtcaattt 240

tgtaaacaca tccttgggac cctactatca ctttgtatag tggaagaatc ttcatatcgg 300
agaattataa ttcgggtggt cccattacta cacttaatta c 341

<210> 1762
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1762

tttatgatac atgcattacg gacctatgat actaagctca tataaaaactg aattattttc 60
taatgatgca tgcanataat taaagacaaa gcgacaaagt cgattcttac caacttcttg 120
agacataaca ngtaagagag aatagaatgc cgtatataac cgaaatctaa cccaagagca 180
gcattggata tattcgggta aaccttaaaa atataaaggt ctaatgattg ctaaaacgag 240
gtttgggtggg actggctact ctgataccta tatttaataa ccgtcactgg taggttagcc 300
aatatgaaac tgagaattgg gggaagccaa tgctttaaat tggaaattta tcatttattt 360
gacacttgac acaagacatt ttttaatttt cattttcgaa ccatatattt acgagtattt 420
tataattctt aataataaat aaacaccggt tattttagaag agttcat 467

<210> 1763
<211> 406
<212> DNA
<213> Glycine max

<400> 1763

agcttggcag caatgtggga tatgagccgc tccatattat tgcaagtgc acgtgctgta 60
gagaaagaag tgaaaggagg aaacgggtcg ggtttcaatc ggagctccag attcggaat 120
gggtcacac gacccggttc gtttagtgga ggacggggca gtactgattg ggtgttgga 180
aaaggaaagg aagttggagg gtccaaaggg ccagctattg ggcctaagag agatgggtca 240
acccatggag acaaaaaaaaa acatgggcct cgtgacaggg gctttacca cttatcctat 300
caagagttaa tggataggaa acagaagggg ctgttggtca agtgtggagg agcctttcat 360
ccaatgcac aatgttctga caagcagttg atggctctgg tgatag 406

<210> 1764
<211> 464

<212> DNA
 <213> Glycine max

<400> 1764

tgcctcatag agatccagga tagacaaggc ggttgaagga accagttcca ctcccgaata 60
 tgatagccat cgttttagga gtgctgagca ccagcagcgc ttcgaggcca tcaaaggatg 120
 gtcattcttc cgggagagac gcgccagct caaggacgac gagtataccg acttccagga 180
 agagatagtt cgttggcggg gggcattgct gggtaccccc atggctaagt tcgaccaga 240
 catagtcctc gagttttatg ccaatgcttg gcctacagaa gaggggtgtga gagatatgcg 300
 atcttgggtg aggggttagt ggatcccttt cgatgcggat gccctcagcc agttcctagg 360
 atacccttta gtgttggagg aggaccagga gtgcgagtat ggtcagagga ggaaccaggc 420
 cgatgggttt gatgaggagg ccatcgccca gatgatgtgt atac 464

<210> 1765
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 1765

agctatgaat tctccacta ccacacatag tttacccttg tttggattat cttcaacctt 60
 tcatatagaa atcaaaagac aaccaacat ttttcaacac ccaaaagaaa gaaggaagga 120
 aaatagactt cagatgtaat gtaaaaagaa atctctattg tagatctaag cttacacttt 180
 tactcttttt ttgtagattt ttcaatccaa aatatgcctt tctgcaaag cctgaatata 240
 tgatcacata taagatagat tatataaaaa caaattattc aaatgccata tgaatttaac 300
 atcatttcca caagaaaaac cttgtggcaa tatcatgac agctaaatag taatatgcac 360
 agccacataa caacaatgcc tctaaattat tttcatcttc cttgagaaga aaccagact 420
 cagcaatagc actctcatc tctttatcag c 451

<210> 1766
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1766

tcctcggatc ctatgggtcat atgataccac tcctcattca ttcactcaca agcccncttt 60
 cactctggta tatagaacaa atgccatgat ccctatcgaa gttactgagc ccactttcca 120
 agtggatgta ttcgaggaag aatgattaaa agaagactga tttgtggatc tagacactat 180
 tgaaaagcta caaaggatta tgcagattca tgaagtggcg accaagattc gagtcaagcc 240
 aagatacaat cctaatttga cttggggagaa ttgaaagagg gggatttggg tataataagg 300
 gcttaaccta accagattgt caacaagtta tctcccaagt gggttggcct ttatcgaatc 360
 agttaggtgg tcgaaaagga gcatacaagg ttgtgcacta actgggtggag tctactagagc 420
 catgagcaag aggctccaag agaattgtgt tatagctact gaag 464

<210> 1767
 <211> 584
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1767

nttcaatctc gatatgtanc tctagattcg atatcgtatt ggcaatctcg actttnnenc 60
 cncaacaggg aacgggaana ttganatcct tgctcgacct gtgagcctcg agagtcgacc 120
 agagtgcattg cgcgcgcattg ctggcaagag tctactaggtc gtgtatcgct tgtgcgcact 180
 tatgttacac cgggtgatgct gtgcattatg tcataacaca gtcctacacc ccaaagctca 240
 cagacgcacg ctcttctctg ctgtatgcat tacaccgagc gatagcggcg cgcttggtca 300
 agcaccaa atgaacgaca atgggtgtact atggggcggtg cgccatgtat ttacacatca 360
 cactatggga cagccagacc taatagactg tgcattagca aaagaagcaa cagctgagga 420
 tagtacatca cggtagttag accacatgcg catacacgcc agattcatcg gtggacagta 480
 actgcccaga gagaggtgtc atctgttgca gagaattgtc aacaaacgat gctgttggca 540
 aaatcgtgac aacgggtgca cagcgtgagc cgggactttt ttcn 584

<210> 1768
 <211> 277
 <212> DNA
 <213> Glycine max
 <400> 1768

gaatcaagat tcatgagaag atgagttcga gattcaagag aagaaaccaa aaagcatcaa 60

<210> 1771
 <211> 479
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1771

ctggcctatg aatacatcgg cacgaanata actttcattc ttatatactt agcatgtctc 60
 ggatcaacgc ctgcgatact gcgtatcgac aactcatcat acatgataat gagcggcctc 120
 atctcagatg agcactcgcg agcgcttgaa tccaatacat atctcacaca cacacacgca 180
 cactcaaagc aagcaataga tgatgtcata gctataccgc ccctgtcttc ttctttctgc 240
 ttcgaccgta ataaggcaga aactctcadc ttggcttgct aactcacatg ctgcagtctc 300
 gggagtagtt gataggcggt cataacttgac agaaatggat ggattccctc cattggcacc 360
 ataggcgatga gtttcccca ccgtaaaatt cgaatgtgta actgcaatgc tgctactata 420
 agatcccata catagtgtta cgacggacaa cctcgagcca aagccaactt ctcaggccc 479

<210> 1772
 <211> 458
 <212> DNA
 <213> Glycine max
 <400> 1772

agcttgagta ttggctgctg cgccgagtgc aagactacga gttgtgttag gcttgggagc 60
 aagactgcga ggtcactaac catagaactt agacaccgct ttttgtccaa acaatatata 120
 aactcagtat tagggacatt agacctcact cattcaaaca agcggcttat atcacctccg 180
 tgtgttatat atacagcatt tttggaaacg catttatctc tacgctatat attgaaaatt 240
 taggcattgt tccaatagaa ttcaattcat taaaatacac ccagtataat ttttttttta 300
 catcatataa tcataaaatg cagaataaaa tgcagtgttt gattaactct cacatgcaga 360
 actgcagaag accaaatcaa aagctaaaac aatataataa atgaatttca attcaacaca 420
 tctacagaca tgtaaaaata gagattggca agaataata 458

<210> 1773
 <211> 441

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1773

ttaaattcta ttgacaagag atttctgagg aggagtttct tgcttttttg ataacaaata 60
 aagtgtgttt agtaactttt ataaatcaat tcttactagt gttgatggta ccatcttcat 120
 tgggtgacatc tatgcgaggg cagtctcata tttcattggc ttgtggagtg gcgttgccac 180
 atttatctat tgggactgac gagagtaaca tttccatcca tatgttttgt taaattttgt 240
 tattttaaatt gaatagggag tttcatgata tagatctatt tttactgttt cttttatgta 300
 cccactgcga tttatcatat tacttttcag tcattagtag gttactcact attgagttat 360
 gcatttgtga gttntactta attgtttaaa gtgcttctag tgtattagat gctaacttat 420
 tatcgaaaca cagagctaaa t 441

<210> 1774
 <211> 594
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1774

tcctgtnagt ctgaacgtaa tcatgaattc accgtgcaat cggatgcttg tcatcanaca 60
 actancacca gcaagtgann cttgaaaccc ttgaggaccc tagcancncn cngaggnanc 120
 cacgcgcatg aagatgaatc tagagncctt cgatgtctga cattgctgat gtttacaagc 180
 ccgaagaatg actccaagag tgagacaaca agaagaactc ctgatgagtc caccataac 240
 ccccaggtgt atgaccaga tacgagtgtc cgacatatcg gaggaatatn ccagacgact 300
 tcacaaggga agtataaaac agtttttgct tcaagaaaca gaaaagagct ctctcagaag 360
 tgtatcagct accagagtta ttactctcgt ggcaggcgaa taccagttat ttggaatcga 420
 tgaccagtgg ccaagttgga tgcacgaggt ttttaatgaa tcggttccat ggagctcgta 480
 tcttcaacgg tgtaatcgag cactagacat aggtaatcac ctactcgtgc aactggaacg 540
 caggaagtta catgtgagca gtgaactcgc gtctctctat atcaacgagc gtcn 594

<210> 1775
 <211> 403

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1775

agcttcatga tgatgaatca agtagttntg ataatgacaa agatgatgac aaaaagccca 60
aagaatgatt tcaagattaa gtcaacaaga agaaatcaag aagattcaag aatcaagaga 120
agtttgattt caagattcaa gaaaagatga attcaagatt caagagaaga aatcaagaag 180
acttcacaag ggaagtataa aaaagttttt ttttcaaaaa acaaaaaaga gtttttctca 240
aaattttata agttaccaga gtttttactc tctggtaatc gattaccagt ttcttgtaat 300
cgattaccag tggcgaagtt tgatttcaaa agcttttaac agaatttgca acgtcccaat 360
tgatttcaaa atggtgtaat cgattacaag atattggtaa tcg 403

<210> 1776
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1776

tctgcatgtc tagagagttc tagagagaga aaggtccaag ttccagagag tttgagagat 60
tntgttgtgt gaagatctac agagaccaga gcttgagagg aaaccgtcct gagagcttga 120
gatgagtttg tgagtgattg tgaggctcta gaggtggagg agacatcccc actacttgta 180
tttctacaat ctttcatctt tctcttctct tttgtgtaaa ggaagcttcc cagttatgga 240
aagctaaatc ctctgttgga tcttcttctt aggtacttga tgcaaatatc tttttattta 300
tttaatgatg ttttttgtgt tcaactgtggt atcagaactt cattctacca tgcttttgcc 360
ttgatcatgt agatgcatgt gtttttagga taattgaaca gtggaaactg atctgattct 420
tagaacttga taggacggng ctagtttgtc gtatttaca 459

<210> 1777
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1777

agcttatgac cattcgaatt tctcaagagt ttccgttggt caatttcgag cgtgtagatg 60
 agttatgtcc ccgaatcgga catctgtgtg aaaagttatg accattcgat tttctcgaga 120
 gcttccgttg ttcaatttcg agcgtctcga tatattatga ccccgaaatcg gacatctgtg 180
 tgaaaacgta tgaccattcg attttctcga gagcttccgt tgttcaattt cgagcgtcta 240
 gatgagttat gtccccgaat cgaacattcg agtgaaaact tatgaccatt cgaatttctc 300
 gagagcttcc gttgttcaat ttcgagcgtc tcgatatatt atgttcccga atcggacatc 360
 cgagtganat gttatgacca ttcgattttc tcgagagctt ccgcttggtc aattcgagcg 420
 tctcgatata ttatgtcccc gaatcgacat 450

<210> 1778
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1778

tgccgccacg gagtnttccg actatgctct tgtgtggtgg aacaagctac ataaggagag 60
 agcaagaaat gaagagccaa tgggtgatac atggacggag atgaataaga tcatgaggaa 120
 gcggtatgtt ccggttagtt actcaaggga cttgaaattc aagctccaaa aactaaccba 180
 aggcaacaag gtggttgagg agtattttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
 tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
 ccgtgatatt gttgagctgc acgagtttgt tgaaatggat gaattgcttc acanagcaat 360
 ccaagtggag caacaattaa aaagggaagg agt 393

<210> 1779
 <211> 390
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1779

catgcaagct ngactataat tcattatttg cgttatgagc ctacatcaac caattggatt 60
 aatgatgttt ttgtcacaat caagtgattg tcaacgtctc catatgggtg tactttgtgg 120
 tcatgttttc atttatagaa ttcatttgga atgtctgttg ttaattctga ataagtgacc 180

attcttcatt taaaattaaa gtctcttaat caattgagtg ttcatttagt tatgagttga 240
 tcattctcca atcatgtctt gttaaattgt ttgatataatt gccatgttgt tacttctgtc 300
 atgtatagag agagactttt ccctctgtaa tcacgcttcg acgttcgaga ggaaatactt 360
 gtgtagacat gatccttgct acctactgat 390

<210> 1780
 <211> 158
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1780

ttctggtnac tgacacacct tatattnttg tgctattgat tttcttatga caataggacc 60
 aaaaatttaa aaataggatt tacattatgc ttgtcaacag tgaattannn agagatttaa 120
 accacactaa agaaaaaaat tattccaggt gtctatac 158

<210> 1781
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1781

agctnnttgg agtagaaaca tgggaccaac tcattntatt tcaaaaagga agtcgtatct 60
 agtcaaggtc tgagagacca tacaagtttc ctaacgattt ctaattatgt gggccattaa 120
 gtctatcata tgctgacaat agccgagaag cccatgaatc tcttcggggg tggagtaggt 180
 gtctgccatc gccttggcct tggctaacaa gccgggaagt tcttgactct cgttcaagggt 240
 aagagcaaac cgatccatcc acatggttgc ctcttggtgt aaagagtcga tcacccttcc 300
 tctagcctct ttttccgct atacttgagc atactcgtnc gcgattctat gcccgtaggc 360
 cgcggtctaga cctaactctt cttggtactt ggcgatgata gctagcatgt tgggtctccgt 420
 ctctgataaa cgctga 436

<210> 1782
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 1782

tggagctcgg ngctcttntg aagttcctca gctgacttgt agtagaatga gacatattct 60
tccaccaag acttgatata atcccatata tctagcccat cagaagcata aggatagtcc 120
tcgatcaaaa gtcaaaactcc atggggagca gatggatcct taacagcaac tcctctgaat 180
taaaagcacc caaataacat tgattagcat aagagttata tcaagcctga agcctttttt 240
cttcttatgt cattgatgac tttttatata atgcattcat gtgccactac tctgtcaaag 300
ccatgaactg tcaaagccat catttaggat gaaacagtct ttgtctttcc aaaatctgaa 360
atacgagcca cttgagcatc tgctaaacga tatttcgtgc caccaatagt aacctcagat 420
gaaacagtct ccacatccaa cacaatataa tccaccaatt gtctactagt aagtaatgac 480

<210> 1783
<211> 464
<212> DNA
<213> Glycine max

<400> 1783
agcttgccgc ccagctcgcc caggcgagca aggttgcttc ctccagaagc aacagccttc 60
tggaggaatc ttttagaggg ccaagtgggc ctgggtgcta ttacacccc catttttact 120
aaatgcaccc cccctttcta tttttttttg taattcattt tccgtaacgt tacgaaactt 180
tacgaatttc gtaacgatac ctattttcct tccgcaaggt tacgaatcct tacggatcat 240
gtatttactc ttttttactt tcaaagaagt tacggaaact cacggattgc gcaaaaacac 300
ctctttttga ttccgccac attacggaat ttcacggatt acgcaagcct gcttcctttt 360
ggattttctga gacgtctcgg gacttcattt aatgcatgtc atcaagtaat aatccccgga 420
cgaaatatgg tatgacagtt gccctcttt acttacctct catc 464

<210> 1784
<211> 490
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1784

tactaagctt acaacanatt caaaaccaac aacaacaacc acccaaaacc atatacaaac 60

tgaaaattgt attccctgag tgtacaattt attgtgcagc tntcacataa acaagaatgt 360
 ggagaccaaa tggtaatcgt tgattgggtca aagaaatgct cgtgagtatg tcatggatg 419

<210> 1787
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1787

gagcgtatga ccattcaaatt cggtaagagt tttcgtatag cgatatctag cgtgaacacg 60
 agttatgtac ccgactcgca catcggagcg agaagatatg accagtcnag ttgttcgaga 120
 gctgttcggt gttcattttac aagcgggtct atgaaccaag cacgggaggc tcacgggtggc 180
 gagaacacgc atgatcaaac gaagtgcgag agagcatgcy ttgttcattg tttagcggct 240
 gtataagata tggccccgct tctgccttac caaacatgac aacagacggt atgcagtttg 300
 tcaaacataa agtatgttga acgcgagcgc atgatgatgc aatgactc 348

<210> 1788
 <211> 297
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1788

ctcttctcct ctccgacctg ttccttctca atgtatgctt aatttctaag tccaaaggaa 60
 ctaaattgcc tgtgggagat ctatgcatat aaaatactaa cagacacaat gggtatccaa 120
 ttcaataaga gaagttatat atgaatagaa nacaatatatt cgcagataat aaaaaaataa 180
 cgaataaaga atagacacct ataatgaac taacttgta gataaaaaga agttccctgg 240
 caacggcgcc aaaaacttgg ttgcttcgg caagtgcacc ggatcgaca agtagta 297

<210> 1789
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1789

agcttatata ctccactgta tatattaaaa tgaaagctcc acatgatata tgtatgaaaa 60
 acanagatag cagatattaa aactgggttg cctcccagga agcgcttctt taacgtcatt 120
 agcttgacac atagcttaat gccttcaagg tggcatgaaa gtcacataaa acacatcttc 180
 cttgcagttt cgccttttag ctagaaattc catgaacttc atgtagtttg caagtacatt 240
 ccaaattcatt tcaggaaagg tgtagtgat taaagaaaga atggcactta agatttcctc 300
 atgctctcct tgccttcttt tcttgtcaat ctgttgatga ggaagggtat tgatctggag 360
 aataccttct tgattgtnt ctactatcga gaacttctcn cattgttgct gtgcttggtta 420
 ctcatctttt tccttgactc atgctctntt aca 453

<210> 1790
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1790

tctatagaag gttcgttcct aatttctcta caattgcac atcttctagg aacttcaagt 60
 tgtatcatct gttctaaaag agagaaatca ttatgttcat cttataaaac tcagttgtaa 120
 tcaagagatt gtttgtctct tggcatgtga gaaactcgaa cataagggtg agggatccca 180
 aggtgtgttc aaagattgta aaggatttac aaggatagtg gaaaatatta agtaggttac 240
 ttaaggacag gacatatgca cggaagtgg ccgaaccaat ataaatcaag tttgcaattc 300
 tctcttcctt tgtcttggtt atttttattg caatttactt tgtcttgac atttaaacia 360
 tattgttaaa ttgactattg cttcttcttc tacattctaa atctatcaca tatcatntaa 420
 aaggggatta anacttttta gttggaaaat ttaaagactt aa 462

<210> 1791
 <211> 425
 <212> DNA
 <213> Glycine max
 <400> 1791

agcttcttat ccaacgcact ctcttggtgg tgaagctcct ccttccatgg cttattcctt 60
 agtggatgac gcctcttctc acctcttttc ccttatcttc cgctacatct tcatgggtga 120
 aatcaccat tgaacgacct cattgaagct catggatcca gcctccatag aagattctca 180

agaagcttcc atcataacct gatagagaaa taaaaaatatc ttaattcaaa ttgaaaaaca 240
 aaacgatgct agtcccttgc atggttcaaa ttgttgagca tattatagta catgatagat 300
 cgataattat gttaatacta taaggacttg tgcattgttg aaacttggat aactcatttg 360
 attggacaag tgaatgaggt tgggtgcgca cactctacat gagatcatga atatcttata 420
 atata 425

<210> 1792
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1792

gtagttattc ataatacaaac atggccttca tcatcctcaa gttcatacat ccaatccata 60
 ctttagagat tcacgcaaaa atcagcacta catgatagtc gtttctctca aaatttttaa 120
 gatcacacac tcaactgggat acgggttaatg cattccttca taatcaatct gacaactgac 180
 taacattttc agacataatt ccaatcatat gtcattctc ttctaataac ggcaaacttg 240
 atcaaaacaa tcatccaatc atcccaatcc attcaattca tacatttgct caatcaatca 300
 tttcctaaca ctcatccat accaaacaag ccaactgcata caatgttcaa tcaattcact 360
 gttcaatcaa gctttntgta caagaaaaca aacaactata ctactgaaat taaaagactg 420
 aaacacnaaa gcttgaaatt aaatgacat 449

<210> 1793
 <211> 269
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1793

gcttttatcc aagacattct cttgggggtg aagcttcttc ttccatggct tattccctag 60
 tggatgacgc ctctctcac ctcttttctt ttatctttcg atgcatctcc atgngggaaa 120
 atcaccattg aaggacctca ttgaagctta aagatccaac ctccatagaa gcttctcaag 180
 caagcttcca tcaataggca attaggcaat ttgacctgct aaaccctaaa tctcaaattc 240
 atctagcaag caaaattgtc cctatacag 269

<210> 1794
 <211> 434
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1794

ttctgagcta ggtccatatt tcaatTTTTa agatgcatgg ttctctgtgt tgccatgtaa 60
 tcctttattc ctaattagnt ctgctagtct aatactatTT tcaaaatcta aatgttaaag 120
 ataataaaaa caagtgtgaa tatttgtctt ttctagtaaa cttcttggaT tttgcttaat 180
 ttcagaaagt atgtgtgcaa cttgctatct agcttgtgtg tgtataagct ctgctaaaat 240
 gattntaacc aaaggatatc tactaactta tttacctatt tccgtgtgta ttacagcaac 300
 atagcttcta tgagctaatt gtgaacagag ctagaggcga aagcggTcta gtatgaatgt 360
 tttatttata tattatacat ttctctattg gaaggcgcat gttttgatga taaatgatgc 420
 catcaacact caat 434

<210> 1795
 <211> 431
 <212> DNA
 <213> Glycine max

 <400> 1795

agctctgagc caattctaac gataataact ttttactcgg atgtccgatt gagtctcgta 60
 atatatcgac acgctcgaaa ttgaatggTg aagctctagg cctattcaaa cgacaataac 120
 gttttactcg gatgtccgac tcagtgaCgt aatatatcgg gacgctcgaa attgaatgtt 180
 gaacctctga gccaaactcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240
 tattatatcg agacgctcga aattgaatgt tgaacctctg agccaattca aacgacaata 300
 actttatact cggatgtctg attgagaccc ataatatatg gagacgctcg aaatggaatg 360
 ttgaacctct gagccaattc aaactacaat aactctatac tcggatgtcc gattgagtga 420
 cgtaatatat c 431

<210> 1796
 <211> 440
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1796

taaacattca atttcgagag tctcgttata ttacgggact ctatcagaca tccgagtaaa 60
aagttattgt cgtatgaatt ggcttatagc ataaacattc aactttgagc ctctcgatat 120
attacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat ttgtcatag 180
gttcaaaatt caatttcgag cgtctcgata tatttcggga ctcaatcaga catccgagta 240
aaaagttatt gtcttttgag ttggctcaga ggttcaacat tcaatttcga gcgtcccgat 300
atattacgtc actgaatcgg acatccgagg aaaaagttat tgctgtttga atntgctctg 360
agcttcaaca ttatattacg agcgtctcga tatattacgg gactcaatca gacatccgag 420
atacaagtta ttgtcgtttg 440

<210> 1797

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1797

agcttgtctc agcgtttatg cgagacagag accaacaatgt tagccatcgt cagcaagtac 60
caagaagaat taaatctagc cacggccac aagcacaag tggcagacga gtatgcccga 120
gtgtacgcgg aaaaggaggc tagaggaagg gtgatcgact cgttacatca agaggcaaca 180
atgtggatgg actgatttgc tcttactttg aactggagtc aagaacttca ccgattgcta 240
gccaaaggcca aggcaatggc gaacacctac tccgtcctca aggagatcca ggaacttctt 300
agctattgtc agcatatgat agacttaatg gccatataa ttagagaccc tanngaagtt 360
gtattggcac tcagatcttg actagttata actt 394

<210> 1798

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1798

tgcttgtggg gcttctatgg aggtggatc tttgagcttc aatggcgtcc tttaatgggtg 60

attttccacc atggagatgc agcggaagac aaaggagaag aggtgagagg aggcgccatc 120
 cattaaggaa taagccatgg aaaaaggagc ttcaccacca agatgaacct tggataagaa 180
 gcttgggaagg atgcttcaat ggaggaaaag aaagagggag agaaagagag agggggggagc 240
 acgaaattga aggaataaaa gagggagaga agtggaaactt tgaagtgtgt ctcataagac 300
 tttcattcat caaagttaca acaagtgtta catatgtttc tatttataga ctangtagct 360
 tcctggagaa gctttcttga gaaaacttcc ttgagaggct tctttgagaa aacttccttg 420
 aggagctaga gcttagcaac acacaccct ctcac 455

<210> 1799
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1799

agctcgctta ttaattaaca accttttatt gtcttaatag ctttaagttc aagattgatt 60
 ggtcgattga gatgaaatta aaactgttga cgtaatttc aaatagctgg ctctacatg 120
 tgctctgttc ttaaatttgt atagataatt gggctttttt tagtaatcaa attttagaaa 180
 aaataaaaaa tgatgataag tagtaaccaa gtttattttt tatatatttt tttctagcag 240
 tccaataatt ttatttgaat gtattaaaat ataatagaaa ttactggaaa taataaacat 300
 ttgttttgaa taaattgtga tagacaagtt aagaatgaaa acaaagaaga aatgtcataa 360
 ttggaattgt tgggtgaaaa ctaatataag ttttgatatt tatttctatg aaatgtangg 420
 tcacttcaag taaatgaagt ttcatactaa ttatat 456

<210> 1800
 <211> 463
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1800

gatgcttcta gtgaagacag gaaacgcgat gaaattagaa aacacaatga aatgttaaag 60
 gcttctgaag ctgttgctga agtcagagca gaggtggata agctcgctga gagggtgagc 120
 ctgcttctca tattatcttt ggttattgaa acataataac tggagctgag aatgaggata 180

tgagtgattt tgatttgcaa gtatctgtct tgggaagtggc tgtggatgga gggaccaggg 240
 tttctgacaa agagtttttg atgtccacag agttgcttat gaggcaattg ctgaaactgg 300
 atagtattga ggctgaaggt gaagtaaagc tgcagagaaa agctgaggta gtgtttatgg 360
 tggtagaat tataacttaa attctaacta attgcgtatt agntattgtg tttattttgg 420
 tatttacaaa atcccaccta ttagtaagtc atggacactg act 463

<210> 1801
 <211> 352
 <212> DNA
 <213> Glycine max
 <400> 1801

aagcttatga ccattcgaat ttctcaagag ttttcgttgt tcaatttcga gcgtgtagat 60
 gagttatgtc cccgaatcgg acatctgtgt gaaaagttat gaccattcga ttttctcgag 120
 agcttccggt gttcaatttc gagcgtctag atatattatg accccgaatc ggacatctgt 180
 gtgaaaacgt atgaccattc gattttctcg agagcttccg ttgttcaatc tcgagcgtct 240
 agatgaatta tgtatccgag tcgtacattc gagtgacaac ttatgaccat tcgaatttct 300
 cgagagctta cgtagttcaa tttcgagcgt ttagatatat tatgtccccg aa 352

<210> 1802
 <211> 427
 <212> DNA
 <213> Glycine max
 <400> 1802

tttccgacta tgctctcgtg tgggtgaaca agctacaaaa ggagagagca agaaatgaag 60
 agccaatggg tgatacatgg acggagatga aaaagatcat gaggaagcgg tatgttccgg 120
 ctagttactc aagggaactg aaattcaagc tccaaaaact aaccaaggc aacaaggggg 180
 ttgaggagta tttcaaggaa atggatgtgc tcatgattca agcaaatatt gaagaagatg 240
 aggaggtaac tatggctcga tttcttaatg gtttgactaa tgatatccgt gatattgttg 300
 agctgcagga gtttgttgaa atggatgatt tgcttcacaa agcaatccaa gtggagcaac 360
 aattaaag gaagggagtg gctaagagga gttttaccaa ctttggttct tctagttgga 420
 aagacaa 427

<210> 1803
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 1803

agcttagatc aggcattcca gtcaaactgt atggccgtcc gaatatgcat gggcattcca 60
 tttcaacttt taatcgatcat gatataattac gggcctcaat cggacatgag agtcaaaaact 120
 ttagcccgctc agaattcacc cgagtcttcc atgttaaatt ttgagcgctc cgatagggtta 180
 cttggccttat tcgaagatcc ggaggaaaag ttatggccgt ttgtatttgc gatgggcttc 240
 acttttatcc taagagcatc tcgatataatt atgagcttca attgggaatc cgagccaaac 300
 gttatggctg tccgaatttg cgtggctcagt ccatttctac tttcgagggc gatgatatat 360
 tatgggcctc attcggacat cgattaaaac tttgccttgc ggattcaccg gagtttccat 420
 gttaattcta gcgcccagata ggtacttgct ta 452

<210> 1804
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1804

taacanactt aganatcaag tgatcatgta ttccgaaata tatggggaga aaacggatgc 60
 acattttatc tatatacagt tgtttggtgt ttgcttgaat cttgatttca ggtattgtat 120
 tgtcatcatc aaaaaggggg agattgtaga tgcaattggc tttgatgttt tgatgatgat 180
 catgatgatg tgttgcaatt gatgcaaatg ggcttttcaa gattaaaatt caagacaata 240
 cttcaagatt acaagtcaca acatcaagat gatcactaga atattaggaa gggaattcct 300
 aattgaatta gcaaagggtt ggccaagtga tttaaaataa aaagtgtttt tcaaagggtt 360
 tactctctgg taatcgatta ccagaggatg taatcgatta ccagtggcca aatacgtttt 420
 ataacagcta taaaatttg aattcgaaat tttaaaacct gtaatcgatt acacaatt 478

<210> 1805
 <211> 172
 <212> DNA

<213> Glycine max

<400> 1805

taattaattc aaattgagaa ataaaatgat gctagtcctt tgcattggtc taaattgttg 60
agcatattat agtacatgat acactgataa ttatgttaat tctataagga ctctgtcatg 120
ccgtatactt gcattaactc atctgaatgg gaccattcaa tgctgccgag ag 172 .

<210> 1806

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1806

tagaacttaa accttcgatt ctcaactgat tcttcaccaa atcacgtccc gtaaagccca 60
atcttcctct ntttcactcc tctttcactt ccaccgatca aaatccagaa aaacttcac 120
aaatggcaga gccatcaaag aagagaaagg gatcatcttc caccgccacc gctgctgccc 180
atcgccgtca cgggccatcc ggagcaccca cagcacctat tcttccttct ttgtcatctc 240
caagatcatc aacactgttt tcatccgatg atcaacgtct acggtacctt tctcagtttt 300
cttctagaat aatcttagac cctaagtacc tagacgtaga gttctttaat gatgaaacgt 360
ttgattgcta tcaagtgttt c 381

<210> 1807

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1807

agcttattat tatcttggtt cataaattgg atgaaatata ttcttaattt cattttataa 60
agcatatcac cataataatt aataagcaat aataacgtca ctataagtag tatcccaaag 120
ttaaggatgat tcttagagga actaacaaga gaccttaact aaaatatgaa tcccaagtga 180
agggtgacga ttaatgtttt gtcctcatgt aattcaacat gcccttgggt ctttgaaatt 240
tactaattta tgccattgat aatacaata atgattatt aaatatttaa ataactaaaa 300
gaaaaaagca tgcattgtctc anatattatg ctacagcaac aaagagtggg aaaggagatt 360

aatacagaca actatggcaa cggagaaatc gcgtattctt tcataagtgt ccacaatacc 420
cattctctga agtgccataa gccgacta 448

<210> 1808
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1808

gcgaatatga gaaacgtaga gaacattatc acaatccata cccaagcta actctaacc 60
ttcattggaa taactatctt gaacatgtgt tttagaattt tatttttgac aaaatgtttt 120
atcctaatat catgaattga ccatttgatt atattttcat tnttttgatt ttgattatct 180
tcaaatatat ttttattttt ttaaaaatct aatttgatta aaataatagc taaaaatttt 240
atttctcaac catcttaaac tacttgggtct tttatcttnt attgtatggg tgattttctt 300
aattacttat ctctttcaag ttattattat tatttttatt tttaaattaa attttaatat 360
atttaaaata aatcattaaa tagttaaaat taaccttgta tcttgnaatt aattatctat 420
tatanatcta acatatatct gtatcttaat tat 453

<210> 1809
<211> 439
<212> DNA
<213> Glycine max

<400> 1809

agctatagca actctttctt tttgtttagt caaaacttct aatgctctta atctctctc 60
atctaaatca actaactcat ctgacatcat tttccaataa tggctcgattg gaatgtccat 120
ttgtttttgt accctggctg attgcaaagc tatttcgacc ggaagtacag catcatgccc 180
ataagtcagt cgaaatgggg tagtattagt tgattcctta ggagaatttc tacatgccc 240
tagaacttga tctaacgttt tattccaatt tcttggcttt agggcaatgt gttttttaat 300
caagttaatt acaatcttat tggctgcttc gacctgacca tttgcttgcg cgtaatatgg 360
tgttgaggtt aataatcgaa agccagtttt ttgggcaaat tcttgcatctt ttcgtccagt 420
aaaaactgaa ccttgatca 439

<210> 1810
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1810

ngtgaatgta tatctatcat tcccaacttg caagtaaggt cttgaagttg ctccgtggga 60
 agtccttggt aagggatgta ttcggtggct ataagaccac tgtctaattn ttccttaata 120
 aaatgtcgat taatctctat gtgctttggt cgatcatggt gaactggatt gtgtgcaatg 180
 ctgatggcaa acttattatc acaaaccagt cccataggaa cttcatatct tattttgagg 240
 tcatcaagta tgatattcat ccataacaac tcacaaacac cttgagccat agctctgctt 300
 ttgcacttga tcttgcaacc acattntgct tcttactcct ccacgttact aaatttccac 360
 ccaagaacat gcagtatcct gtggtagatc tcccatcaac aatngatcct gcatagtcag 420
 catcagtata tactttcatg at 442

<210> 1811
 <211> 190
 <212> DNA
 <213> Glycine max

<400> 1811

agcttgctgc atatataaca atcttgagta ctctctaaat gactggtaag aatatctgcc 60
 agttgataat ttcaattgat gaagtttagt gtgatgtctc tggataaaat ctacagttag 120
 gaggtagaga gaagattgta atggaatttc aatagatggc agtgatggag gggaggaata 180
 catttacact 190

<210> 1812
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1812

tatcagaagg ggaatgagta aataccacct catgctgata ttatgaaggt ggcaaagtgt 60
 ttcttttgca agaagaaggg acacatgaaa aagaattgcc ccgattcca ganatggctt 120
 gagaagaaag gtaaatacat ctcatagta tggtatgaat ctaatatggt tagtgtaaat 180

attaacacct ggtggattga ttctggatct actattcata ttgcaaattc tttacagggt 240
 atgcataacc taatgaaacc agtgggaagt gagcaaagca ttttatcagg caataagcta 300
 ggctcacatg tggaggccat tggaacttgc attctgactt taagtagtgg ctgtatttta 360
 aaattagaaa ggactttcta tgtanccaag ttttcccgaa acttgatttc tatttcaagg 420
 ctt 423

<210> 1813
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1813

agcttcttgc gtagccgctc ttggtgctca tataatccaa aaaacaaatc cctcttatta 60
 ctagctattt tgaattcttt agttcctgaa tgtacaacct tcaaattggt gctcgttccc 120
 ctctttcttt tctgcaaaaa agaaaatcaa atgctgtcaa aacaaggatg aagtcctaag 180
 aaaatcaata tcaaagaaaa catggatgaa atcacaatta aaaagcacia ctacctatct 240
 ttcagagtcc tttggttaat ttgtcttgtc tccttatatg gtgggggttct gttaataaat 300
 cttatacttt tgccttccaa aaaaaaactt atcactaatc ctcttttcat taatccaatt 360
 tttntatggt attgtataaa agatcatggg ttc 393

<210> 1814
 <211> 454
 <212> DNA
 <213> Glycine max
 <400> 1814

cgcacaatat ctatgagtgc agctatggta gcgaaaattg tatgagttta tcttcagtca 60
 agcaacaaga agatagaagc gccttaactt cctatgccag tcaaatagta gtacctacaa 120
 cgaatatggg gtgatatgtg tcggtgagaa agttaagcag tcatttataa tttggtgatg 180
 ttattaacaa aatgaatag agatagaagg agactcaatt atttgttgaa ttagagacaa 240
 taagtgcacac cacatctttg gaataatcga tgacatttgt agttaacgaa attcttcatt 300
 tctaacttac tgttgaggag cttatatatg aaagtcacag ccagacctaa gctagaaaaa 360

tttgaacat catatTTTtac aaagcacaag ggacttggtg attgtccagt taaaagctgt 420
ccaacataag agtctgaatg atgtagctag catg 454

<210> 1815
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1815

agcttgtaga atggtagac atgatacatg tcagggttg gtttggttca aggataaaag 60
ggatgcccc cattatttcc atgacacaaa tgcaaaaatg atgatttga aactttatgc 120
aaaactggtc atgcatgcg ctatgcggac gctcaagtgt caaattttta tggcatgtg 180
atgctagggc tcangattca tttcctctat tttaaatcaa cccaatgttt ccaaaatatg 240
ttcttttate aatttgtaga ttctccaag tccatttcgg gcgtccgagg aaattttcac 300
agcattcacc cttcaggtgt agacacgttt tttcttcaaa aatcggttat gatcaatgaa 360
ttntttntca aagaaaagt ggaaatcatc tcttttanaa gcatgt 406

<210> 1816
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1816

ntatagcaca gcaacacaga atctaggtgt ccaacacccc tcaattcaat gggttntcta 60
ggtttgaaaa gtgaaatcga gaatgaggta aatttgaagc aaactctcac ctacaccag 120
tccataacat caatctaaac ttgctcaaac tggatttacg cttaaaatct caccgaatca 180
aaatttgact cttccacacc caaatttgcc ctagaaatgg ctctntgttc actntgggtca 240
tttgtttttc tctctagcac agcctaattct ttctcataag tcctaaatga catttcaagc 300
taggattaac tcaactntaac ctccatttac cacagaatcc agaattaacc ttccaactct 360
caaagcctca ctctntntcc actcataaca tcacattctc acttttctaac cctagggttaa 420
ctctaccctt cacctctatc ag 442

<210> 1817

<211> 355
 <212> DNA
 <213> Glycine max

<400> 1817

agcttgagaa atctcttcga ttctgcaata catttctgac tctatggcat gagatgcacc 60
 gcatagatag gacctcccgg tgggtgttat caacgaatat cttaaact tgtgcttgag 120
 tgaaacagtc gctgtgagac tgcaggagga gctactgtcc ttgatacctg tgttatgact 180
 aacttcgtct aactgtatag gacacattat gttctactct ttatctagct gcatattatg 240
 ggagaacaag tgattggtac acattgcttc atcttctaca tcatgcaatc aatgaattat 300
 aacgcgtaca cctttgaaca tatacactgc gtgctttacc acttgaggac aagtg 355

<210> 1818
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1818

ngccaccag ctcgcccaga tgagctaggt tgcttctcc ataatgcacc acaacgatgc 60
 ttgttttgca caacaatgct ctttgtgact tccagaatgt tgcgaaactt tacggattgc 120
 gcaacaatgc ttgttaaaca tttcagaatg ttacggaact ttatggattg cacaacaatt 180
 cttgttgaac attttgaggc ggtcaagaga aggtcgtatg ccaacaaata atgtgccctt 240
 gacgaaatta gggtatgaca gacgcccctc tctacttacc ttttattgga gataaaagt 300
 aagtaaagat aagacactaa tttcgttcga gtggaacatg atttggccga tcaatatccc 360
 taccgcgga acctgtcatt cagaaaga 388

<210> 1819
 <211> 303
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1819

tcggatgtnc gatntaggcg natattatat ttagacactt gatattgaat aacagaagct 60
 ctcgagaaat tcgaatggc ataacttttc acacggatgt ccgattcggg cgcataatat 120

gtcgcgacgc tcgaaattga acaacggaag ctctcgagaa attccaatgg tcataacttt 180
 tcaactcggag gaccgattca ggcgcataat atatcgagac gctcgaactt gaacaacgga 240
 agctcccgcg aaattcaaat ggtcataact tttaactcag aggtccgatt ccggcgcata 300
 ata 303

<210> 1820
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 1820

atgacaattt gaattgctct agagattcca ttgttcaatt tcgagcgtct cgatatatta 60
 tgaatatgaa tcggacctcc gagttaaag gtatgaccat atgaatttct cgagagcttt 120
 cgttgttcaa ttctgaggcg ttgatatat tatacgcttg aatcggaact ccgtgtgaaa 180
 agttatgacc atatgaattt ctccagagat tccgttgctc aatttcgagc gtctcgatat 240
 attatgcgcc cgaatcggac ctccgggtga aaagttatga ccatataaat atcttgagag 300
 cttctggtgc tcaatattga gcgtcttgat atatatgctc cagaaattga cttgcgagta 360
 aaagtatgac catttgat 378

<210> 1821
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1821

gagcccggtt agtcaaagag aagttcaagt ctatagccat caaagtctga agagagtatg 60
 atgaactaag ggacgtcaat atggccaccg atgaagcctt ggaatgagaa accaagaagg 120
 cccgaaagga agaacacgac caaaacaagt tttagagggc tttagagggc agcaatagtg 180
 agctcaagct ccgaagaggt gaaaggaatc atcacgggtc aaaggcatga tcttgaagga 240
 cgagctaaag gcttgccctta ggtcgaaaag aaatttgtcc caacagttaa agcgagactg 300
 aagggaatat gtgggccatc atcgatgagt gcaaagagaa gctaaatcta gcggcgactc 360
 acgagcanag gctagaggat gagtacgcca agatatcagc agaaagggaa gcangggana 420
 gggtaattga ttca 434

<210> 1822
 <211> 460
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1822

tcaaactatt tgcttcccga gggaaattct ataaacagac ctcccatctt taatggagtg 60
 ggttaccact actggaaaac ccgcatgcaa atcttcatag aggcaataga tttaaattatt 120
 tgggaagcca tagaacaagg accttatgtt ccctctataa tagccggaag tgcaacaata 180
 gaaaaaccta gagcagattg gactgagaaa gaaagaagat tagtacaata taatttaaag 240
 gccaaaaata ttattacata tagcttagga atagatgaat actttagggt ttcaaattgt 300
 aaaagtgcta aggatatgtg ggatacacta caagtaacac atgaaggcac aacagatgtt 360
 aaaagatcta ggataaacac tttgactcgt gaatatgaac tttntaggat gaatgtaaat 420
 gagagtatac aagacatgca aaagaggggc acacacatag 460

<210> 1823
 <211> 443
 <212> DNA
 <213> Glycine max

 <400> 1823

tggatactct gagtcacctg cagctgcagc ttgaattgat acatcatttg tgtaatcttt 60
 taccagacac aaaagaaatt caaatttcaa gtctgaagag tcacaactct atagaaacta 120
 actgtgtaat caattaccac atttatgtaa tcgattacca tgaagatatt ttcgaaaata 180
 actcccaaga gtcacaactg ttcaagaagt ttttgagtgg ccatcaaagg cctataaata 240
 ggtgacttgg gatataaaat tccttagagt ttttttgaac aacattgtct tatcctctca 300
 aaaccaaatt gtcttatcac tctcaaaata ttccttggcc aaaacactcg caaattcaat 360
 aaggaatctt gatcgatctt caattgtaat atccttctct taaagagaga aaattcttgt 420
 tcttcttatt caaagagaat tga 443

<210> 1824
 <211> 415
 <212> DNA

<213> Glycine max

<400> 1824

ctaagctaag gaaccgacac acctgtcggc aacccaaca ctaaacaatga gagagaataa 60
aaaagacact tcaactccaat tccaaacctg ttgctgaaac cccaaaaaac ttacaacatt 120
ctatgtttct gttcagagga agaaggaaaa aaaaaaagtt agcgtgggtt tgttgagttg 180
aaaccgattc agtcaagtc aatccaaaca cacatttgga gaagaaacaa taagtttcat 240
ttcgattttc aattattcaa tgatgggtcca agagcgttca cttcccaaat cagtgaactc 300
gaagccccac gcgcgcacgg cggcactggc ctccacgaag agcctcgatt tctccgcgtg 360
ggctctccgac aacctcgtca ggatcgtggc agtgggtgctc cttgtcgcca ccgtc 415

<210> 1825

<211> 368

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1825

agcttagtga cnttttttct ctcatattacc ttttattatt attgtaaaaa atgattgtaa 60
agcatggcta aaatcagggg tctacttaac ttcaaagcc attcgttcgt ttgtttacct 120
ttccttggat ttcgggttct agtgccaacc tgagttagct agcattttgg ggtatgttaa 180
aaaaaaacga tgttaaaagg cagggaaacg ctttaaaaaa gctgagctta gttctctcac 240
ttaaccttat agaacgtga tggaaaatat gttcttatac tttaaattct aaagcaaatt 300
tttttcttct caatcagata tcccatatct tttaaaaatt gtgttcgagc gattctctag 360
attttcta 368

<210> 1826

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1826

attttctgtg gactntgaag gtttgaacc ttagaatgga ccacatatag agtcatggcc 60
caaggaaaca aatagatcca tggcgtgtac agttttggga tgctntgctt tgagattcta 120

tgttctaagt tccaactgga aaagttcctt tccaagatag gcatcaccaa gggaagacat 180
tagacaaggt ttgtgctaata gaaatcangg acattcaact ttttaaatat tgtaattttt 240
taatgttttc tttttcatgt ctattctgtg attctgcagt atacactatt ttcccataat 300
tttagcgaaa caattgaaaa aggaaaagca aaaaaataaa ataaagggaa agcatatgtg 360
agattgaaaa tncgatttta tctgaccaag taagtgatta naacataata accctttatt 420
tacataanaa aaacaaaaca aaacttt 447

<210> 1827
<211> 163
<212> DNA
<213> Glycine max

<400> 1827

agcttgccat ttattatatt accatgatgt ataagcaaca agcttatata tataacttat 60
atatatacac tgagaattct gtggcgtgtg tctcaatttc tgtgtaagct aggatatcat 120
tttctgtgaa aaggatatccc tatctctatt cccctaccat tct 163

<210> 1828
<211> 382
<212> DNA
<213> Glycine max

<400> 1828

aaaatgaaga tacaataaaa tagtgagaaa atatatagat ttctaaatta tttaatatga 60
aatattcaaa atataaaata aaagtttctt gcccgtaaa caattctatt tataataatt 120
ctatttaatt cacataagat tacatttaat agaagatata catcatttaa acaaaaatta 180
aagtttatag atggacaact agaaactaag gaagctatag ctagctaagc tactacatat 240
taataaagaa caaaacatta caagaaaagg aaataattaa aaaaggtaga taaagaaaaa 300
agtgaggtga aagtttcaaa ttttgtgtgg ttccaggctt gcaaaccaat cctccagaaa 360
ggaattgttg agaaaaagta at 382

<210> 1829
<211> 298
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1829

aagagatddd taagtttata ganatgaaag tgtgaagaga gtatgaggaa ttaagggatg 60
ttaatatggn tattgatgaa gttttggaat gagaaaataa gaaggtntga aaggaagaaa 120
atgagtaaaa gaagttttga ggggttttat agggnatgaa tagtgagttt aagcttagaa 180
gaggtgaaag gaattattat gggtnaaagg gatgatgttg aaggaagagt taaagggttg 240
gattatgtng aaaagaaatt tgtgttaata gttaaagtga gaatgaatgg aatatgtg 298

<210> 1830
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1830

gcttgccact acagnagata agtgaacata tgaagtgttc acagtcattg gatggttgct 60
tggtagaggt acatgctaata aactaataag atttcctgtg cagggatatca ttgtttttgc 120
atgactgatg gctaccttgt ggctggagat tttgggtgaa tctgcctcaa gtgttatttt 180
gaaggtagct gagataatct tttgttgttg tttgtttatt atatacctaa atttgggttc 240
aagactagtt attcaacatg tggattatgt accataagac tgttctaata agtgatctta 300
aggtaggcag atgatcttat cattgaagag gtgtgtttcc ttctctgttg tggattcatg 360
acctataagt taatacatga aactgaaaaa t 391

<210> 1831
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1831

agatntagtg tttgcgagcg aaaggatcga agtaagtctg agaagaggta aatntgatta 60
tgctgctctg atgaataaga agcctgcggc aaatggattg aataagaaag agggagaaac 120
ccatgttgtg attgtcggtc ctacatggcc aaatttccca ctagctcaac aatatcaatg 180
cacaattttt ttcatatttt cttgctacaa ggtcatgaca aacgacaaca acatatacct 240
ccaaacccta caccagggca atgacagaca tcatgcatga gcttcaaaca aacctagggg 300

cagacaagaa gtcctatggc ctaggcaagt taacgaaata aaaaaaaaaa caatcaaggg 360
cgtgttatga aagggtntgt cccaaaatcc aacttggtaa agtctctggt caagaattga 420
aatgacaaat ggtcgtgttt cttcattcca aacacctgat tat 463

```
<210>      1832
<211>      431
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      1832
```

agcttgtcan	aataattatt	ttttcagtag	acttcacact	catgtctaca	aataagctct	60
cattttataa	gaacttatag	aataaatgct	tagttaactt	gtttaccaa	acatgccaaa	120
gtctcaagta	ataaacctag	aaaggaagct	ataaagaatt	gaaaggtcag	tcacttgtaa	180
tttagtaaaa	agtcataata	agcttgtaca	ttgctgtttc	cactaaaagc	tatcaaagat	240
gttgggctat	tatcaacata	atgaccttat	tcgccaaatc	tgtgatattt	caaatagcac	300
gcaccaatta	atataaatta	ttcaaagaga	aaaaaaaaac	cactgtaata	attgatagaa	360
aactccagac	accatatatg	atagggacca	tattattgac	gccaaatgag	ataaaatgac	420
gtcccatatt	a					431

```
<210>      1833
<211>      473
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      1833
```

ctgactccac	acacgttaga	naattcagtc	attttcttca	ttagtgcttt	ctttctcttc	60
gcgaaagcca	aatcacgatc	tctcccattt	gggatgggct	ttaagattaa	ttntgggcgt	120
cccatgttct	aaagcatatg	cacatatata	gaaattgatc	aataaagcaa	aacttgggggt	180
catacgttgg	ggatagagag	atcaaataga	caactagttc	atgaattgat	cgaatgtttc	240
ggataagatg	ttgttctaga	aatttaaaat	aaaaaataat	tcaacaaaaa	agaaaatcat	300
caaggatcaa	agaagaatgg	ttcaagtcta	atctctcctc	tcatcaagga	ttaaagaaat	360
ttatagaaga	aaaagtaaac	tggttttgaa	taatagcaaa	aatgaaagaa	aaaagggaag	420

acagaaagaa acaatagaga tatatggata gataataatt ttcctaacag ctg

473

<210> 1834
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1834

agcttgacaa gttataataa taataataat gttatTTTTat caaattctat cgtattcaga 60
gtttatTTTta tttagatTTTt atTTTtatcca gattTTTattc catctatatt ttatTTTtate 120
cagattgtat ttcacccgat cttatcttat tttatcaaga ttttagTTTta tttcgTTTt 180
cggggtTggcc ttaaaataga tttgtaaact ttggggctga agacctaatc catacatttt 240
ttaatattat atgttctTTTt gttttttTTta tatatTTTtg gctTTtaacga ctttaatatata 300
atatgatttt gttgatcaat tattcttggg atnttacatt acttatatga cattgtataa 360
gtttttt 367

<210> 1835
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1835

cttaaaatnt aaagactgaa ttaatttatt gtttgaanat ttaacgatca aattaaatct 60
tttaaaattt aaaaatcaaa ttaaattatt taaaataatt gaacgactaa ttcataatta 120
aaccctTTTTt tttatTTTTt tgttggtaga cttcgatttc acattaacaa gtatcatgcy 180
aatacacaac atcgatgttg ttgccaaagg ttaagatttt ctgtctcttt tttcaatccc 240
aatttccctt tttttctacc aaaccctca tttccaactc tccattatca ctttcactct 300
aagtctctat cccttgaaaa tgttgatgat gattgttccc aattcaatcg catgttgtgc 360
atgcatcata ccacacccat cattgaattt aacaagattt tagattcctt tgcaaagatg 420
atgcagt 427

<210> 1836
<211> 245

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1836

agctatgagc cattattctg tctcaacata tatcttgact cagngcgaac aatcctatac 60
ttaccctcgc atacgcactg aaagagtacc gcgttattat acaatcaatc gatataggag 120
agagatttat gtcaagcaca tgatttgtat ttcttaacac aagagagctt aatgcatac 180
ataatgtaat gaatatttga tctcgatgct gtgagaaaga gcattggaga tgtactctag 240
attat 245

<210> 1837
<211> 489
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1837

ntgaggcctg cattacggac ctatgaaact cagccttctc aagtgtgtag cgtggcatat 60
tagcatcgng tatgtgttcc gtacacctct cttaatttta tggactgcct tcggtctgaa 120
tggtgtttca tcataattcc ttgatgtgtg ctggaacatg tgttcatata aagacacata 180
acatggcctc tcacaccact acaccagatg gtcccatcca aataatgagt atgagcattt 240
tggatatagt gaggcgcacg ttgttgagtg taggactgtc cgagacctta ctgggcaaag 300
ctgcacacgc agcggcctat gtgatcaaca gatgttcac atcagacctt atacttcaga 360
caccaatcga agcttggagt gcagaaccct ctacttacta ccaagtgtag atgtatggat 420
gactagcact tgctcatgct aacaatgaaa cttgctggtg ggctgtatgc gtgagtcatt 480
ggccatccg 489

<210> 1838
<211> 385
<212> DNA
<213> Glycine max

<400> 1838

agctatattg cctaacaagc caacttaca ctttatgccg caagagactc aacataagga 60
tgcacaggtc aaagttgagt atgagaaaag attgtatgac caagtgaagg tgcaaattgc 120

aaagaagaat gaaagctatg ccaagcaagc caacaagaaa aggaaggaag tggtagttga 180
 acccggtgat gatcctggac atttgaggac aaatgttttc caagaaggag ggaatgatga 240
 gaatcctgaa attggccaaa tacaggctaa aggcccaagt ggagaagggc aaaggcccaa 300
 gtggagaatg ctaaagcccc cgagtggaga aggatgaagg cccaagtgga gaatgatgaa 360
 cgcccatagg cagagacact atcaa 385

<210> 1839
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 1839

tataatatat tattacgctc gaaattaaac atcagaagct ctcgagatat tcaaattggc 60
 ataacttttc acccggtatgt ccgattatgg cgaatcacat atcgagacgc tcaaaattga 120
 acaacggaag ctcttgagaa attctaattg tcataatttt aactcggatg ttcgattcag 180
 gcgcatacaca tatagaagcg ctcgaaaagg aacaacggaa gctctcgaca aattcaaattg 240
 gtcataactt tccacactga ggtccgatta cggattataa tatatcaaga cgctcgaaat 300
 taaacatcga aagctctcga gaaattcaat tgggtcatcac ttttcacacg gatgtgcaat 360
 tctggcgcat aatatgtcga cacgctcgaa attgaacaac ggaagctctc gagaaattca 420
 aatgggtctta actcttcaca cggatct 447

<210> 1840
 <211> 461
 <212> DNA
 <213> Glycine max

<400> 1840

agctttcaag aaacttgcaa aagttattca aaatgaaaa gatttgaaaa ttaagacctt 60
 gagaagtgat catagaggtg aattccaaaa tgaagatttt aaaacttttt gtgaagaaaa 120
 tgggatttca cgtgattttt ctgctactag aacttcacaa caaatgggg ctgcagagag 180
 gaaaaatttg tgtttgcaag aactagcaag aactatgtta aatgaaacta acttagcaaa 240
 ttatttttgg acggatgcca taagtacaac ttgctatgtt ctcaatagga ttttaataat 300
 acctatttta aaatccacac cttgtgaact ttacaaagga agaaagccta acatatcaca 360

cttaagggtc tttggaagca aatgctttgt tttgaataat ggaaaactat accttgggca 420
agtttgattc caaactcaat gaagcactct ttttacgata t 461

<210> 1841
<211> 370
<212> DNA
<213> Glycine max

<400> 1841

cttgaatcta agcttctaag gaagttttct caagaaagct tctcaaggaa gctacctagt 60
ctataaatag aagcatgtgt aacacttggt gtaactttga tgaatgaaag tcttatgaga 120
cacacttcaa agttctactt ctccccctct tttattcctt caatttcgtg ctccccctc 180
tctctttctc tccctctttc ttttctcca ttgaagcatc cttccaagct tcttatccaa 240
ggctcatctt ggtggtgaag ctcttcttcc catggcttat tccctagtgg atggcgctc 300
ccttctctc tttctctttg ccttccgctg catctccatg gtgaaaaatc accattgaag 360
gacctcattg 370

<210> 1842
<211> 492
<212> DNA
<213> Glycine max

<400> 1842

agcttaagct tggatatatt aacttaatag gcttttaaata aagcgtaagc ctaacctttt 60
aattaaatag gtccgttcag atcagacttt atgtaagtca gatcgtaggt ctttataggt 120
cggcttgacc tattcccacc cctaatacata gggtttattaa ttctctgacc cttaaggca 180
tattataata tttatatcac tatttacatt taaagaaatt gtatttagac gaggctggcc 240
taacgattag ttagacttaa agtgattaat gatagtgcta tatatgattt ttcttattta 300
taaaaattaa taacaatttt tttttgttg aaactaaaac ttgagtggct tattgtatat 360
gaataagaaa aatatgtga tctcgtaaaa ttactttcta acaaaataag gggattatac 420
tggaacaaaca agtgtcactt atgttgtagc agttgtgagg aataccttta ctacccggc 480
cattttattg at 492

<210> 1843
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 1843

cctgtacctt ttttttttat ctttgatagt gtgttttggg atgttattac cttttttcct 60
 ctggctcact actttccgag gttgatgtaa ctgcctatct tccaatgcc ttctttgagt 120
 tgacttttct ttactaatat gaaatatagc acctaattt aatttagaga taatctccca 180
 attttttccc atcatgtatg tatgaggtgg agtgcgtttt gtgattctag ctgctgaata 240
 tacttgtcta catatattaa aagccatcaa atg 273

<210> 1844
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1844

agctttgagc caattcaaac gacaataact ttttactcgg atgcctgatt gagggccgta 60
 atatatcgag acgctcgaaa ttgaatgtgg aagctctgag ccaattcaaa cgacaataac 120
 tttttactcg gatgtctgat tgacgcccga aatatatcga cacgctcgaa attgaatggt 180
 gaagctctga gcaaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcctg 240
 tcatatatcg agacgctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300
 actttttact cggatgtctg attgagtcct gtaatatatc gagacgctca aaattgaatg 360
 ttgaagctct gagccaattc aaacgacaat aactttttac tcggatgtct gattgagtcc 420
 tgtcatatac cgagacgctc ganattgaat gttgaagctc tgagccaatt caaacgacaa 480
 taactttt 488

<210> 1845
 <211> 590
 <212> DNA
 <213> Glycine max

<400> 1845

gacactatag aaactaagct taacattgaa tttcgagcgt ctcgatatat tacgggcctc 60

[illegible]

cacaggaagg	gagagggaaa	atacataaga	agaaagctnc	gggaagaaaa	aaaaagaacg	60
aataagagcc	ccntgggttg	agctgtgaca	ggcgnntngg	aaanagcgag	ggagaaagaa	120
aagaagaaaa	ggaggggaaa	atTTTTtTgtg	aaggggaaaag	agagaagggg	gggggaaaaa	180
ggagaaaaat	gggagggaga	aaaagagagt	gttgagaaga	gaagaggggg	aagggggaca	240
agcagaaaaa	gaaaaaggta	aaagggtcag	gaaaggaaaa	gaaggggaaa	atgagaaaag	300
gagagc'aagg	gaaaggagaa	gagaaaaaaa	agggggaggg	aaaaaaaaaa	aggagaaaaa	360
gataaaggaa	aagagaagga	agggaaaagg	gaaaagggaa	agaaaaagag	ggagaaaaga	420
gggggaaaagg	aggggagaag	agaaaggagg	gaaaaagaag	gaaaagaaga	tgggggagaa	480
aaagaaggaa	agggaaaaaag	aagggagggg	gaagaggaaa	gaaaaatggg	aagaaaaatg	540
agaagaacaa	aaagggggaa	gaaaaaaaga	ggaaggaaaa	aaagaggaga	gaggggggga	600
gaaggaaaaa	aagagaggag	agaaagggag	gaaaagaaga	agaaagggga	gaatgaagag	660
ggaaggggga	agaatggaga	aagaaaaggg	aagaaagaag	gagagaatga	atgagaagag	720
aagaaggaga	aaaggaggaa	gaaagagaag	ggtaagaaga	gaaaagatag	aggaggagaa	780
gaggaaagaa	ggagaaggag	gaggaggagg	aagaggg			817

<210> 1847
 <211> 836
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1847

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 acaaaggtga aacttcctgc ttctatTTTT tggtattgat gtgggtcccg agatatgac 120
 acgggggtct tgaacacctg gggaccgctt gtgggggtgct aatttccata accaagcttt 180
 gaacaattgc gaacgtaccc actcgtatgt tgtcaaacag aacctgtgtt aggactaaac 240
 aggtgagctt ttgtcgggca agatatatgg ggaacataca ccacatacct tagggggcctg 300
 ttgctggctg gccagcatgt agatatcgtg tgaatatggg gttgcggctt ctcgttattc 360
 tattccaaag atggcgtcca catttaaagt ggttcaattt aagactgtat gcttagaatg 420
 tattttgggtt attgatatat agaggatgtg acctattgcc ttctcggaaa gatggaaagg 480
 atcaattgat acattacact aatgcagttc gtatgggtgac cattgcctaa atctttttgt 540
 agagatgggtg ccgtatgtcc tttctatatt ttgattagat cctattggga tgatttctag 600
 tcaaaagaat ttgatcagat tctcttgaaa tattagctta tttggttgggt atccacgtga 660
 acgaacagaa ttgctttgca aactacccta tcggttcata tggaaaagaa gcgcaagcga 720
 ttcgattcat tatgaatagt aaatagatac accgtattgg gagtgtatgg tctacgtttt 780
 aattttcatt gaaacgtcaa tgggttcgtg tctttcttgt actccaatgt gcgtcg 836

<210> 1848
 <211> 285
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1848

agcttggtga aattgccatg tttggatgag ttatacatat ccattctgnt ntagggttnt 60
 gtgatgatgt ttatatgctg aaattgccta tggaaactgt tagagatgaa gggtagagtt 120
 aacctaggggt tagaaagtga gaatgtggtg ttgtgagtgg aaaaagagtg aggctttgag 180
 agttgaaagg ctaagtctga attctgtggt aaatggagat taaaatgagt taatactagc 240

ttgaaatgtc atttacgaca tgtgagaaag gttacgctga cctac

285

<210> 1849
<211> 515
<212> DNA
<213> Glycine max

<400> 1849

tcttatccaa ggctcatctt ggtggtgaag cttcttcttc catggcttat tccttagtgg 60
atggcgcttc ctctcacctc ttctcctttg tcttccgctg catctcaaag gtggaaaata 120
accattaaag gacctcattg aagctcaaag atccaacctc catagaagcc ctacaagcaa 180
gcttccatca agtggtatca gagcacaaga gcttcaagta ggtgatcctt aaacctccat 240
taatttttgg ctttatcttc tcttccattg ttggttcttc atttttcccc atgtatctcc 300
ttacatgtct tgtgctaaat gttgttaaca taattcttta gagttttcac cgattaaact 360
tgctataaaa gctagatttg attttctatg gttcaaattt cttgttcttg ttcttgaacc 420
atgaatagtg ttgagtttaa gttcctttga gttttggcat gctatttttt gtggatgaaa 480
cctaaaccat aaaattctta ccaaaatatt aaagt 515

<210> 1850
<211> 82
<212> DNA
<213> Glycine max

<400> 1850

agcttgtgtg gctctatcca tatttgaagc ttattatctc gctgctgctg gttgttgtgc 60
tcatatcttt tggatgcaaa ca 82

<210> 1851
<211> 301
<212> DNA
<213> Glycine max

<400> 1851

gtaagctggt tgttaaacca aacttttagca atataaaata gtttatgtta cacgggactg 60
aagtgtccca aattgcaaac tgataaaaga caagaaattt tgtttgcagg tacttactcc 120
ttcgtactcc ctccaaggag gcttccccat gaacatttct ataattgtac aaccctaaact 180

tcaaatatca acaacgaaag caacgtcaaa gctgttatct ttttgacaaa ccgcttgaaa 240
aagctacatg tatgtggaat aagtgtttat agagaatgca tgagacatca tgaagtaaaa 300
t 301

<210> 1852
<211> 553
<212> DNA
<213> Glycine max

<400> 1852

agcttccact cctttgatgt ctctattat acctgcttcc ccggaatat acctgccaat 60
tacctcccggt aggtttttta tgagtagagg gggtaggtc caagtaagtt tgaggttcat 120
aaggcaaatc tgtagctgg cccaactgag gccacattg tatggactta gcctgctgtt 180
cagctctgtc ttccttatca tatatttgtt tatttgctc ctcatgatg tgcttaccct 240
ttagcctgct gtccagtagg tccatttaac ccatgcaatt tttttctgat caaggccacc 300
accctatagg aacctcctct ggattagccc cgattggtat tcccaaataa gagaaaggca 360
gaggcatgat tttgcaattt agataattgg cagcctgcaa ttttcattgt tcagataggc 420
ccaacacccc acagctgctc ttcccataat ttattttaag tcccttgctc agctgagatc 480
ttgctgactt tcaacacacc cgcccttccc acccccgaaa cacacacccc ccctctacac 540
agtccccct cac 553

<210> 1853
<211> 934
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1853

acagcacaca gtggatatat tatctgaact caccaacgcy tcaattgaaa ttgtaanaga 60
gagaagatta ctgtgtctga ntctntaagg gtnnnnnnnn nttgctgctg nctctattag 120
cgacacntan aannanaaaa ccnagcccc taacagnaga caaaagaaag aagggttca 180
gaccgttcat ccgcatgga ggcaggctaa atccggggcg acgtggaaat ggacaccga 240
aagcaccaag gacggtgtgg acaacaccgg gaaaaaaagg cactaaccaa ggaaaacagg 300

gcccaattta gcaaaccgc ccagaacccc cgagggaggg atgtaccatg taaaatgaaa 360
 tgggtctcac taaaaactca ggactcataa aacgattgga gcaaacaccc tcaacaatgc 420
 tggacacttg caagaagggc ggagaaaagc accaggccat catgaaggca aacatactc 480
 cccccacgag ctggcccgcg gggggggaag aagtatcaaa aacaaaagcg gaggggagcg 540
 aagaccaaga aaaacccgag aaaggctcca agtntggaag ccctgagggc gcaataaccc 600
 ctcaatcccc cataagacac accgagaaga ggaagaaggc gcgccccaca aaacctggag 660
 acaaaccgtc aaggccgcga aagaaaaccc tgagaacaag gaacggcaat tccaacaaaa 720
 actgaacaaa gggcccttac aaaccaaagc ccgggacaaa acaagggcta cggccaggac 780
 taacggaagg accagggcaa caaggctcgt tgccccgcaa ggaccacacg aaagaccgaa 840
 tggaagcgca ggagaacaat aacacatgca ccgcgaccgg cgcaggtacc gcaggcccca 900
 acaaaacagc taggaacgag cacaagatg gccca 934

<210> 1854
 <211> 600
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1854

agcttcatgc ttaagtatgt atggcaaaac tttgttactg ttgttcaaga catacaagtg 60
 agcttgtaac aaatgttcta cacttggagt gatcacatgc agtcctcttg aacccttacc 120
 acccactctg tcttcatgcc gagactcgag aaggctaaca ggtttagcct tctctaagta 180
 ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgcttctgg 240
 acgatataga ttctttgtat acccttttaa gatcttcatg taccgctcaa ccggatacat 300
 ccacgtaga taaacaggac cacaacattt gatttctctg accagatgca caatcaagtg 360
 aatcatgatg tcaaagaaag cagggggaaa atacatctcc aactggcaca gtataattgc 420
 ggctcattt tccaactcat caaacttgac aggactaatg actttgctac atatagcatg 480
 gaagaaaaat cacaggcgag ttatcactaa cctgactttg tttggcaaga tgtcttgtat 540
 agcccaccac taacaaatgg ttgcatgagc acatganaat cgtgagactt ttaaccctac 600

<210> 1855
 <211> 449

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1855

tgtcaagctc cccacgtagt ttctgcatac cccattacca agagattggt aggcctcaagc 60
 atggcctaaa acaggattag gctcctctca aatgagggga acacacttta gagtttgatt 120
 tcatcacaat taactattgc gaatgcactt cctcgcttta aaggagccat atcccttata 180
 aagacaaagc atcagagctt tgctgggaaa ggatagaggg aacattaccc ttattaactc 240
 gatgacactt ttcgaagcag agaaatgacg gtaacctcca agcatgtcaa tgccctcacc 300
 acttttgcta gggacaagat taccaccaa tagaagtagg gcataatctg aaatgttcgt 360
 agagtcttta atatagatgc tggtagtnt caccttttca ctatacacca tgtaaggaag 420
 agggaagaga taaatcccag cattaacag 449

<210> 1856
 <211> 229
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1856

agcttgggag gattgatggg gacccggtgn ngtnataaa cgaggatatg ggctacgtgg 60
 gactacgtga gctcagttgg aggtgggcaa catgggatgg tgggtttatg cgcgcattgt 120
 ggatgtggaa aacttgttgt gcaccatcgc ccgaccgtta cctaatacca catgtgatgg 180
 ttacctata ttctcctgg gattctttac tgaagagttg aacggtgaa 229

<210> 1857
 <211> 464
 <212> DNA
 <213> Glycine max
 <400> 1857

tgatgaagaa tgcttggaag ttttttagac tttgaatgaa aaccttgat ctgccgaat 60
 aatggttgta tctgactaga gtaaggagtt tgagttgatg tgtgatgcca acgactatgc 120
 tgtgggtgca aatctaggac atcgacgaga caagatatc catgccatat actatgtcaa 180
 caaggctctg aataacgcac aattgaatta tgcgactact gaaaaggaaa tattggtcaa 240

cgtctatgcc ttagagaagt ttcaatgctt tctggtgggc tccaaggctg tcattctcac 300
 agatcatgca acaatcaa atcttcttac caaggcagat tcaaagccaa ggttgataag 360
 atgggtcttg ttgattcaag agtttgacat cgtcttcaaa gacaagaaat gatctgagaa 420
 tgtaatatgct gaccatttct cccggttagt gaatgaagaa gtga 464

<210> 1858
 <211> 896
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1858

acacgacact gtgggattcg aagatgcgca ttcgaactac agcttgtgga tgctatanta 60
 tcgctataca tagttataat tcacaaagaa nnnntnnnt ggtctgacgc tgcatacnt 120
 ggccnntnca ngaagaannc aaaactcaag ccactagact cattcttcag aaactgggcc 180
 attttatctt tcattgctgg gaccagcat tcaggggaca tagcagaatc tatgcgtatc 240
 ggcccaatgc cgaaaaggaa aagaagcatg ctagaaagag ctcccttgcca ggacatttgg 300
 cctaagtcac caaagactca agaatccgga tgaggggtgc tcaacaaaca taaaataggc 360
 tctttgacta cttcaaggga atcatccatt cgagagctgg aagcaaccta atatggctga 420
 atgaacaggg aacacgcgat atatccaagt gctcaatgtg caaaggacta cccagctgtg 480
 aaatataggg gggggcta atgccttaaaaa ctacaggaag gagctttaca aaacaagggt 540
 ctaaagaatt cactccatag gcgctgggta aagggaatat cccaccgaga gtcctgaacg 600
 ccatgggagg cgaaacctgc caaggacaac tgggggacga aaagaaacgc ttacatccaa 660
 aggggcgaaa taagacgaac agagccaacg tccagacaaa aggataggga ggcgtcctta 720
 gaaggcccca ggcagacgtg cgttgtaaaa aaccaccgga tgataaaggg acgccccgag 780
 cagaaaacaa tgcagcagga gcaaggacgg gcctaggggg aaccaagag aagcacaatc 840
 gaaggtgctt gaccgagagc gtacccatcg aaggcgggg tactgaacaa aacggt 896

<210> 1859
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 1859

agcttgcttg tggagattct atggaggttg gatatttgag cttcaatgag gtccttcaat 60
ggtgattttc caccatggag atgcagcgga aggcaaagga gaagaagaga ggggagacac 120
catccattag ggaataagcc atggaagaat gagtttcacc accaagaatg cgcctaggat 180
aacaagcttg c 191

<210> 1860

<211> 573

<212> DNA

<213> Glycine max

<400> 1860

ttaattataa gtaacaaaac aaaaatgtga ttgctgattg cagttttttt atgaattgat 60
ggtttcattt ttaattgcct tgaatatgtt tttgtgacta aaaatttagt atttttttat 120
ttttgatcca tataaattta tttttctaata ttttaattctt ataaattttc gttgtttttt 180
caatttttat ccttgtaaga tattttgtat attttttttag tcatgtaaata atgtgttttt 240
taactctgaa aaactataaa taaaaaatca taattttaag gaactaaaat taaaaaatat 300
aaactcaaag aaggactaaa aatgaataaa gaaaacttac tggaaccaaa gttaaaaaaa 360
tgaagagaaa aattaaaaaa gaataaactt aaagagaaca taatgtaaaa aaaatactta 420
atgaaactaa aaacatatct aaagtatttt taatctactt aaatatatta tatacgtatt 480
aatctttaca aaaagatatt aaaagcgaca aatgtgtata taatgacttt taaactggtc 540
aattcatttc cttaaaagaa taaaaaaact gtt 573

<210> 1861

<211> 112

<212> DNA

<213> Glycine max

<400> 1861

agctttaagc caattcatac gacgagagct tttttatttt gatgggacgt ccgtcacaca 60
tccgagcaaa aagatactgt cggttgaaat ccgctccaaa gctttcaaac at 112

<210> 1862

<211> 62

<212> DNA

<213> Glycine max

<400> 1862

taaacattca atttcgagag tctcgttata ttacgggact cactcatata tccgaggaaa 60
aa 62

<210> 1863

<211> 264

<212> DNA

<213> Glycine max

<400> 1863

agcttatagt ggagtagcaa cttttatata ctttatttc ttttattctc ttacgaactt 60
atcctttccc acaagatctt tacacaaacc ggttttcaaa cagaacataa aatttgtgat 120
ggacatgcga gtccacttta gtctgggtgt agacctaat cccaaggcgg gaagcaatag 180
caatgtgaca aaagctatct tctttggctg atgaaatata tagatgctga atcacctact 240
cactaaaaaa gagccgtgtc ggcg 264

<210> 1864

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1864

tgatcaaaac aaacatctaa tcattccaat ccactcaatt cattcatttg ctcaattaat 60
tcattcgcaa acactcattt catacaaaac aatccactac atatcatttt caatcagctc 120
actgttcaaa caagcttttt gtacaagcaa tcaactcaaa gtactgaaat gtttaaagac 180
tagaattaaa acaactgaaa tataaagcaa actaaatagt tggtaaacta aaatgttcat 240
gctttgtaga aattaaacta aacacgattt aaacaactga acagaattta aacatcttgc 300
tcattctgtg gctgatcttc attaatgccc agtgctggag ctactgatga atcctgaata 360
agctactctg gctccatgac tggatgaagat agcaaggctc ccttaggagc aggtgcatga 420
gatggctntg gtatctgac agtagaagtc tctcctgag ccatgtgtac atct 474

<210> 1865

<211> 370

<212> DNA
<213> Glycine max

<400> 1865

tctatataag ctgaaccatt ttatcaataa acacaagttg agttttattc agaaaattag 60
agttttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120
accctggctg tatcaaagga ctttcacaac ctttgtgtgt tgccctcgct ggaaagagtg 180
attctttcct tccaatcatc tccacccttg ttctttcaaa ccacaattcc agaaaatcca 240
cctctgcccc aaattatctc gtgaaaggtc tctgtttgaa attcaattta ggctcaagaa 300
tcacttaatt tgagtgtgta aaatgggaat tatggtcacg agataatttt ggccgaataa 360
atgggaaaat 370

<210> 1866
<211> 138
<212> DNA
<213> Glycine max

<400> 1866

agcttttagta atgggctgag ttagataaag gacatactat acacaccagg ttaaacaatga 60
ttcaatctca cgtttttaat gcttttttcc ttaccactg accaacttca tgaacgtggt 120
tggatttgta tggagtgg 138

<210> 1867
<211> 428
<212> DNA
<213> Glycine max

<400> 1867

tcacagtga tatcaacctt gagtactatc tctgggggct cttcatcctt tttctcttct 60
tccttctttt cctctgtggt ctcttctttc ctttcttctt ccttggtctc cttaacagc 120
aaagagaata ttaattgaat atagcaaaga tgtgactgaa aaatctccac catgtgtaga 180
actagagtat atatggcatg cattacttga taatgatgcc accaccatat atatcataga 240
gcagacatta tatacaaaag atcataaaag ttaaaaaaat gcatgatcct agtcctatag 300
tgtagttagt tctaaggcta aagttgtcga aaaaaggaag agacagattg attaagaata 360
aatagacaag aattttctgt gtaagagaga actcttactt caccctattt ctgtgacaat 420

gaacaatg

428

<210> 1868
<211> 751
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1868

cttatctcta tatgtaatcc ggagnctttg caattgcgcg cggaataag cctggggggc 60
tccccacccc acccaaccaa cgctcccg cctctcccc gccaccacg cccccacacg 120
acgccccccc cttccctcgc ctcacccctc tcagtccttc gctccccctc ccccccccc 180
tctcccccat cgtccacac cctccctcc caccctctc cccccctcc cccccccgc 240
acccccctct cctctcctt caccaccccc tctcccccc cctccccctc cccccctct 300
caccctcac ccatcaccct ccccgcccca cccacctc tctcctcccc gccccaccaa 360
ctctctctc tctccccct ctcaccccc tgccaccccc acctcccccc cccctccacc 420
cgcccccccc accctcccc ctacccccct ccccccccc cctccccccc ccccccccc 480
cctcccccc tcgccccccc ctcctccccc cgccaccccc cctaccttct cctccccctc 540
tccccctccc cctccccctc tctccctta cccctcccc acccctccc tctccccctc 600
ctccatgac cctccccctt cccgcacccc cccctccacc cccccccact cctctcccc 660
cccccnct cactacctc tccccctcg ccttccctca tccctcccc tctccccct 720
ccccccccct ctctaccct cccctcccc c 751

<210> 1869
<211> 256
<212> DNA
<213> Glycine max

<400> 1869
caccggcgag cctttgaatt gcttcgatta agtatctatg agacacatgt ttcctaccat 60
accctttgac cagctcctga gcaagtaata tggtatcttg gatattccta ccaggaataa 120
aagctgaatg agtgtttttc accacactat ttatcacatc actcagtctg ctagtcaaaa 180
tcttcgatgt gaccttataa attgtgctac aacatgatat tggcctcatg tctttgatgg 240

tttttgctc cgggga

256

<210> 1870
<211> 420
<212> DNA
<213> Glycine max

<400> 1870

agcttcaaca ttcaatttcg agcgtctcca tatattacgg gactcaatca gacatccgag 60
taaaaagtta ttgtcgtttg aatttgctca agcttcaac attcaaattc gagcgtctcg 120
ttatattata ggactcagtc agacatccga gtaaaaagtt attgacgttt gaatttgctc 180
agagcttcaa cattcaattt cgagcgtgtc gctatattac gggactatat cagacatccg 240
agtaaaaagt tattgtcggt tgaatttgct cagagcttca acattcaatt tcgagcgtct 300
ccatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgccgg ttgaatttgc 360
tcaaagcttc cacattcaaa ttcgagcgtc tcgctatatt acaggactca ctcacacatc 420

<210> 1871
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1871

ntgagcaaat tcaaacgaca aaagcttttt actaggttgt ttgattgagt cccgtaatat 60
atcgagacgc tcgaaattga atgttgaagc tttagcaaa tcaaacgac aacaactttt 120
tactcggatg tctgattgag tcccgtata tatcgagacg ctccgaattg aatgttgaac 180
ctctgagcca attcaaacga caatcacttt ttactcggat gtctgaatga gtcccgcaat 240
atattgagac gctataaatt gaatggtgaa gctttgagca aattcaaaca acgataacct 300
tgtactcaga tgtctgattg cgtcccgtaa tatatcgaga cgctcgaaat tgaatggtga 360
agctctga 368

<210> 1872
<211> 533
<212> DNA
<213> Glycine max

<400> 1872

agcttttagag gactacacgt cttcgccctc agaggactac tagtcctcgc cttcagagga 60
ctacacgtcc ttgccatcag agggctacac gccttcacca ttagaggact acacgtcctc 120
gccatcacia gactacatgt cctcacaatc agagggcaac acgccctaac ctttagagga 180
ctacacgtcc tcgccgtcag aggacttcac gtcgtcacct tcagagggt acaagccttc 240
accttttagag gactacacgt cctcgcaatc agggggctgc acgccctcac cttcagagga 300
cttcacctcc tcgccatcag agggcagtac gccctcacct tcagaggact acacgtcctc 360
gccatcagag gactacacgc cctcaccctt agaggactac acgtcctcgc cattagagga 420
ctacacgccc tcgccatcag aggactacag gtctccctt ttaaaggact acacgccctc 480
ccttttagac gactaccgc tctcccttt aaaggcttcc acgccctccc ctt 533

<210> 1873
<211> 258
<212> DNA
<213> Glycine max

<400> 1873

ttttggagta gaaacatggg accaactcat tttatttttg aaagtcgtat caagtcaaga 60
tctgagagac catacaagtt tcctagcggg ttctaattat atgggccatt aagtctatca 120
tatgctgaca atagctgaga agcccatgaa tttcttcgg ggcgagtaa gtgtccgcca 180
ttgccctggc tatggctaac aatcggggaa gttcttgact cccgttcaag gtaagagcag 240
accgatccat tcacatgg 258

<210> 1874
<211> 163
<212> DNA
<213> Glycine max

<400> 1874

atcatctatg atcctatatt tgcacaagaa ttattgtgct tgctggttgg ttaccctata 60
acatgctgga acaactcgtt tctttttcaa caaaataaaa tgactagatt gtattaataa 120
caggtaaacc aacctatttc acacatgctt ctcaagcata ttt 163

<210> 1875
<211> 471

<212> DNA
<213> Glycine max

<400> 1875

tacttttttc tttcctatag atggtttcag ttactatatc ttttatgaca gtcttgagct 60
ggtcacaaaa ggtcaaaca tagactatgg aatgaacctg cactttgtga gcttaattga 120
tatgtcaagt tacaatttgt ctggaataat acctcccaa atgttcagcc tcattggatt 180
gtactccttg aacttttccc acatcaaatt aacaggacaa ataccaaatg agattggcaa 240
cattgaaaac ttggagtccc ttgatttctc aacaaacca cttcgggggtg aaattcctca 300
aggcctttcc aatttgtcct ttcttgcttc cttagacctg tcatttaaca atttcacagg 360
caaaatacca tcaggcacac agctttaagg gtttcgtgca ctcagctata taggcaatcg 420
caatcttttg gacctccact ttcaaaattt tgctgcaggg tagtgaacct a 471

<210> 1876
<211> 379
<212> DNA
<213> Glycine max

<400> 1876

agctttgaag tttttcacct tctcgctaag ccaaactact ggcttagcga gcgtccgcta 60
agcacaacac tcattgggcta agcgcgtgga agactctgga agaagataag ttgtacaggt 120
tcgttaagcg caccgcttca tctcactaag cgcaccgctt cagttcatcc gctaagcgag 180
aaaggcacgc gctaagccga aattcactaa tgtgcgctaa gtgggtccata agtgtgctaa 240
ggcgcagagc acgaacacga ccacctattt aagcctgaaa taagatttta gagggagtgt 300
ggattgggat tcagagcttt gcatgtctag agtttctaga gagagaaagg tccaagcttc 360
aagagttttg agagatttt 379

<210> 1877
<211> 422
<212> DNA
<213> Glycine max

<400> 1877

tgactattgg attccaaaat gatgggaaaa ttaatgatgt tacacacaaa atataagttg 60
ggtggttaaa ttgtagaaac acgagtgggt atttgtgacc gtaaggaatc taccaagggtc 120

aaaggaaagt tttattgtac tgctatacga ccaacaatac tctagtaatg agtggtgggc 180
 tttaaaaaga ccacaagaaa aaagtgagag tagcataaaa gagaatgttc ggattaatgt 240
 gttgtcattc aagaaagggc aagatacaaa atgattgtat atgagaagat attgatatga 300
 cacttatcct gaagatgaca acaaaaaatc aattaaggca gtttgaacat atgcaaagaa 360
 ggccactgaa ggcactgggtg aggagagtag attacatgaa ttttagccat ttgaataaaa 420
 at 422

<210> 1878
 <211> 189
 <212> DNA
 <213> Glycine max

<400> 1878

agcttgtgtg ggttccactc cagaatccaa attcaaaagc aaaaatagtc attccttgat 60
 ccatatgggc tttattgggc ttgtaacatg gtcagggggt aagaaggcta tgaaagaaaa 120
 gatcaaagag gctcaaagag tgtttaaggg ttatattgag taagaacctt gagatccttg 180
 cctgtactt 189

<210> 1879
 <211> 327
 <212> DNA
 <213> Glycine max

<400> 1879

tgcctcaaag aggtccagga aggacaaggc ggccgatgga acttggtccg ctctggagta 60
 tgacagtcac cgcttttagga gcgctgtaca ccagcagcgc ttcgaggcca tcaagggatg 120
 gtcgtttctc cgggagcgac gcgttcagct catggacgac gagtataccg atttccagga 180
 ggaaatatgg cgccggcggt ggacatcact ggttactccc atggccaagt tcgattcaga 240
 aatagtcctt gagtattatg ccaatgcttg gccaacagag gaaggcgtgc gtgacatgag 300
 atcctatgta aggggtcagt ggatccc 327

<210> 1880
 <211> 888
 <212> DNA
 <213> Glycine max

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<210>	1881
<211>	301
<212>	DNA
<213>	Glycine max

agcttctagc	caaattggact	taccttgaat	taattccttt	ggtagccctt	ttgagccttg	60
tttccctttc	cttgttttga	agctcactac	aagccttaag	tgaaaaacca	tgatattacc	120
atatccttaa	ggaattttgg	agctttggaa	ttgttttggg	aataagtgtg	gggggttact	180
gcaagcctat	agcgcataag	cctacatttt	gaccgttggg	atctactacc	aaacatccac	240
accttactct	gcactacact	ttccacagcc	caccacacac	aagcattttt	ctgcacttgc	300
g						301

<210> 1882
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 1882

ttacagcaga ttttagtaat gaccactaa cctagaatta aatttactta atgccattaa 60
 cctaggggaat taaaagaact taatggctgt gaaattgtgg caacaaaaag tcacccccaa 120
 cagccaacaa gtcattccacc atttgggtct ccaaaaggct gatgcctaag ttgccaattg 180
 ggcccttatt acaacttgaa ctaaactaa ctaaagccct tttaggtgat taacccaaaa 240
 catatTTTTg gtcagtcaac tttaccagga ttgggccatt atttatcaa actaaacact 300
 ctaaaattga gacaaagtgg tgccatttag tctccttca tttgggcat gatacaactc 360
 ataaccttgg acttttcttc ttgaaacttg ggcattgtatt caaatagtat ggacaacact 420
 tgttgatgag c 431

<210> 1883
 <211> 186
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1883

agcttccact tattagtga tagctccttc aagaatttag catatcttgg aatttgcttt 60
 attgcatcca gcagaggcat gtttacctct acttttcaa atgtttcaa gatctccttc 120
 tctgcctctt ccattttttt gntggaaatt gctcttgag ggaatggaaa agggatatgt 180
 tgcttt 186

<210> 1884
 <211> 886
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1884

natatatcta cgtagtanct gtcactatan acatactnnn ngccttttga gatcctaaga 60
 aaagagagcc atatgtaatc ttgaggggag caaggcttcc ctttttattc tggaanagc 120

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<400> 1885

<210>	1886
<211>	424
<212>	DNA

<213> Glycine max

<400> 1886

cgtccaactt tagaagcaag aaaccaaag aagaaggga gtcttgtttt ctatgtcaaa 60
 gtgcatatat tagaagttgt atatgactag aagtatcatt ttggaggtag ttttaagtcaa 120
 ggggcagata ttggaagctg cacatgactt aagaatcatt agaagatgca atggtttgac 180
 tacaagtga gataaacatg tctacatagt caagaagcac acattgagag ttgtaatggt 240
 caacaccatg catcagtgtg ttgatgcatt accttgttga agcactcttg atccaacaaa 300
 tctaattcaa aataagagag ataagctcta ctttagcaag ataaccatga agaagaaatg 360
 tagtcattca caagctgcaa atagtaaaaa agaatgaaca ccatttctgc gaatgactca 420
 cttt 424

<210> 1887

<211> 523

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1887

agcttcccca acatcaaagt aatacaacat tcatacagca canactatca cagccaagaa 60
 aacagaacaa aggcagaaaa ctctgcaaaa acaccaacca aaaatcacag cttttcccac 120
 tcaaagaccc cagtaacaat tccttcgatc caattcgtaa accgttggat cgactccaaa 180
 attttactgg aagtctatag tgcataagcc tacattttga ccgttgggat ctactagcaa 240
 acatccagaa ctcatctgc actagacttt ccacagccaa ccacacacaa gcatttttct 300
 gcatttgtgc aaaattctgc tgcacaattt cacagcaaaa attctgcata agtgcagatt 360
 tcgaaaatca ccttcctct catccaatct tgcccaaata aaatcctaca agtcccaaat 420
 catgtatcaa acatgtctaa accaaagcca agcttcaaac cacagcaaca caaaatctag 480
 gtgtccaaaa cccctcaatt caatggcttt tctaggcttg aaa 523

<210> 1888

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

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<210>	1889
<211>	152
<212>	DNA
<213>	Glycine max

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agcttgagct cattgttgct gaccacaaaa gctctacgga atttgtctcg gccatgctct 60
tccttgcgag ccctcttggt ttctttttca agggctcttg cggaagctta attttcttct 120
cgtaactcga cacactcttt tcagacgtct at                                     152

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<210>	1890
<211>	317
<212>	DNA
<213>	Glycine max

cgcatttggg	gaggttccat	caaccgccct	aattccgtga	tgcttggtgt	ttctaagctt	60
taaccttgac	ttggtaggac	ctcttgccag	tttgttttgt	ccccatgctt	actaaagtga	120
gacaaaaagc	tagtgcaaat	caaaactccg	atattttatg	ggtgggatgg	atgaatgcat	180
gatggaatgc	atatgacaca	gatgcaatat	ttaaaagcgg	gggttcgggg	aatctgaccc	240
catcttagac	acaacgatta	agggtagcaa	atggccccaa	cgtacgtttt	taataatgcg	300
acgcaaacc	tcggttg					317

786

<211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1891

agctntagga ctcgcccccc attcettata ttcagaaata atatacaatt caagaatttc 60
 tctttgtccc ttaatcattt ctaattttctc aaatgggcaa tgcagaaaat gcttatttca 120
 aacatatcca atatccatct cctcaaacaa cctccaaatg ttcttaatct ccaaaagttt 180
 aggtaactaa aacaaaggat attttttaat atgaagatat gaagaaaaat tgagattcct 240
 atcatctaga ataaaatcga aaataggggtg tgcgagcatg tttgcacggg tggacagaca 300
 ttacaaatat ctcacgactt aacttccaat ctgttaaaag attgtaagtc ccatcataca 360
 tcacatgata gtcttt 376

<210> 1892
 <211> 511
 <212> DNA
 <213> Glycine max

<400> 1892

ttggggctgg aaaactttat aatagcacca aggttctagt ttagctctct ctcttctctt 60
 tctccttttt ttctgttttt gcaattcaag ttctgacttt tcatttttagc aataaaattt 120
 tgttcttcaa tctataattt cgttctctat tgattaatgg aaggctaagt cccagcgtt 180
 gtttctctctt gaggatcaaa cacagttctc ttgaggttc tatcattatt gttaaattct 240
 gttcagtttt tctcttctac taattactct gaatttggtg ctattaattc atgcatgctt 300
 agtgcttgat taattgtctc tgcgcttaat ttatgttcat gcttaatgat catttatgag 360
 taatttctgt atgtgttgct taatcacata atgaatgcct tatgttaaatt ttgcttagt 420
 aatttaatat acggttgat taagtgggtg aactgataaa cgataaattc tcgcaaccta 480
 cgataagaga cttgcttggtg aatcaagggg a 511

<210> 1893
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 1893

agcttttatt ttctgatgag taatcggtct agtatgtctt gaatgagctc ctcgaaaact 60
 tgatgtaaat aaacgaatct ttgtccttcg tttccgagct atatatactc gtttaattct 120
 ggctattgaa taattgagac tttgatgaat aactatttga tttttcagct attcttttct 180
 tcttactagt ctattaataa cacaaatgga ttcttccaat gtataaaaaa agaacttcac 240
 aggctcttgc tactataacc tc 262

<210> 1894
 <211> 447
 <212> DNA
 <213> Glycine max
 <400> 1894

caggcttcat aagtaaaaaa aatgttattg ctggctagac tgttttctct cttttggtaa 60
 gcatgtgatg tgaactactt atatagttga atttcaagta aaattacagt gtccatttga 120
 ctctgttcc caaatcagta ttctgctttt tgtttgtttt aataggatgg ttggtgatat 180
 atggtttgtt catcttttaa aactgtttca aaccacaaaa aataagaaca attattgttc 240
 tcaaagtgtc tacttactgt tcttgactgc tggccacttt gtagataaac tggacactgg 300
 tgtagcaatt tgtaaattac ttgggacagt ggtatttcat ggcaattttc taggttagta 360
 aaactacaag tagaacacat agactactgt tcaaacaagt caattgtcat ggtttttagtg 420
 aactttcttt tgctactcaa gttttttt 447

<210> 1895
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1895

agcttgagat gaggaagtgt agaaggggtga aacttctctg ttttattcgt tgaccacaga 60
 gtggtacctg gagatatgtc gcgggggtca ggagaccttg gggacgtcag gtgggggtgct 120
 attgcccaaa accaagcttg accaatcccg acccaacccg ggcatagtca atcagtgaga 180
 acctatgatg tacctaaaca ggcgagctct tggcagtcaa cagataaaaag aaactaagac 240
 cgcaaagcaa ggaggcttgt gtggtggctg gccagctgtg aactttgatt gatatgtggg 300

ttatggcctc tggtaatcga taacaagggt gggtaatcga ttacaaggct taaaaatgaa 360
gacaggagat taagatgggtc tctggtaatc nantaccacn ggggtgtcatc catttaccg 420
tcttacatat gaatgtagcc cgttgtggag 450

<210> 1896
<211> 183
<212> DNA
<213> Glycine max

<400> 1896

tggagcagac aatctatata ctcaagggtg agggggagtg ttttgttttc tgttgcattt 60
tatcctcagg acgacaataa agttgattta ctctgtatcta ctttggcata gtagatttaa 120
gcttttcccc tatgtaaaac ttgggtatggg ctctctgtga ccaaacatta catatattta 180
aat 183

<210> 1897
<211> 180
<212> DNA
<213> Glycine max

<400> 1897

agcttagttt gtttcaaatt gtctgtcatt tttaaaatca aaccaagaaa acattaatgt 60
ttttattttt ttaatttaat ggttgtttct tgggtagtggt gtgtgtacca atcctgcaaa 120
tagcttctct gctggcaggg ttccccaggc cccacctcct tgtgctctaa gcaccattt 180

<210> 1898
<211> 551
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1898

tgagttaagc aagcctaaag aggggtcgagg tttagtactt tctgctatag catagaacac 60
aaaagcatga ttgattagag aaatatcctt atatgcatca acttgtttgt tagaaatacc 120
caacactttt gtagaagcaa gcttcatgat gatgaaccaa gtaattttga tgatgccaaa 180
agcccaaagt attgattcaa gattgattca agacttcaag atcaagcatc aagaatccaa 240
tccaagattc aagattcaag agaagaaatc aagaagcaac aagtcaagac ttcatatagg 300

ataagtatta aaagaanttt tcaaaaacca aatagcacag ttttgtttta caaaagaatt 360
 ttttcaaatt ttctaagtta ccagagtgat tactctctgg taatcgattg cctggtatca 420
 gtaatcgatt accagtgacc aatttagttt tcaaatgttt gcaacgttcc aaaatgattt 480
 tcaaatagtg taatcgatta cactatatta gtaatcgatt acaagtgaat cggaacgttg 540
 gaattcaaaa t 551

<210> 1899
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 1899

agcttgctgc ctcatgagga atgccttgcg cttatatagc atgaaaaaac ctttcgataa 60
 tatgtatgta tgtaaagtgt tagcatgaaa tgccttgcaa aatgttgaat aaaatgcctt 120
 gcaaaatatg aatatatata gcatgaaaat gccttgcata atatgaatat atatagcatg 180
 aagtgcctta caaagttgtt tggatgggta gcgtaaaagt gtttttcaaa atgtgtattt 240
 gcaagtaggt agcaaaagaa gccttccaaa aaaaatgtgt gtatatgtat aggatgtagc 300
 atgaaaaggt ttgtcaaaaa atatgtacat ggatgcgtgc ccaaactgcc tttccccaa 359

<210> 1900
 <211> 531
 <212> DNA
 <213> Glycine max

<400> 1900

tgtaggcgtt ggatcttctt catcaatgga gtcatttgct tcttgaatat catggcagcg 60
 gaatagagaa ggaagaaaga tgattggaga cccacttca aggagatgat gagtcaagaa 120
 gaagctcacc accacaggaa gccatggata agagcttgaa ggaaggcgaa gatgagtgga 180
 gggagagga gagaaggggc acgaaatttt atgcctcaaa tgaggtctga actttgaagt 240
 gtaattctca aatgatcaaa gttcaaaata atgcacacac atggcctcta tttatagcct 300
 aagtgtcaca caaaattgga gagaaatttg aatttctatt caaatttcac ttgaatttga 360
 aattgaattt gtggagccaa aatttcaata attatgatta atggaattta gatatggttc 420
 agcccactaa tccaagatca agtccaagat tcttcactaa gtgtgcttag gtgtcatgag 480

acatgtaaaa catgaatgac atgcacaagt gtgactatat gatgtggcaa c 531

<210> 1901
<211> 115
<212> DNA
<213> Glycine max

<400> 1901

agcttcaaaa gcctatTTTT gtggacgagc tttactaggt gagtttgatt ttagccttag 60

tttcacttta gacattaata aattctcaaa agggcgatgc agaaaatgct tattt 115

<210> 1902
<211> 217
<212> DNA
<213> Glycine max

<400> 1902

ctgctctaaa tttacattgg tgccctgtgt tatgggatgt gggtatatgc cattcttgca 60

ttaagagtga tggccactg gttaaactaa ctttccaaat gtatgccttc acatgaatgg 120

cccctaggaa gcttgctca aagaggtcca tgaaggacaa cgcggccgaa ggaacttgct 180

cctctccggg gtacgacaat taccctttt agagctt 217

<210> 1903
<211> 360
<212> DNA
<213> Glycine max

<400> 1903

agcttgtact attgcgtaag ctttattttg tgtttcgtgt gttatcgttt attttcaatt 60

ttataatggt ttaggattt tgcttcattt cttaaaacta aattaaatga cattgaggct 120

tgagcacgaa tattagagat ttgtggttgt tctcaaccc tcatatacag gttccttgat 180

tggtcaatat aatcgaaaca agtattttctg cctcatgttt ctttctgtac agttaaattt 240

cttttggatg cttagaaata tttcataaaa tttactaaa ttatttaact tgtaagagga 300

tttgtggttc ggattacaca agcatataag tacaaccctt tacagtcatt tcacccttac 360

<210> 1904
<211> 419

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1904

ntgctgtgag ctcttagatt taaaggattc tgtggagaac ttttgcgga atatgcactc 60
caagttcttg gctttcttga ggtaaacatt ttgtgtattg ctctgaatca caatttattt 120
gaagttaccc accaaggaat ttcattgaccc ttttataaat tgggtgtgcct tttgtctata 180
ttgcactggt acaagttcaa gtaccagcac acatatatgg gtatgatggg tacaatgttt 240
taatctcaat ggtgtatcgt gctttagtca tgtggccatt atccttggtc gtgcagattt 300
aactttttgc gctaactagt atttgtttct tgaatcaata ttaaattggc atttgttttt 360
gattctgcag aagatcttat ttctttgatt ggaaattctt gataggaatt atttgtaag 419

<210> 1905
<211> 354
<212> DNA
<213> Glycine max

<400> 1905

agcttggttg agagagcaat gtcaatattg tcatcaactt cagccctaatt agttgggcct 60
ggaaactgac cggtgattcc catcagaacg tgttccaagc aatctgggtt tctgatcatg 120
tactccacat caaacttgta gtgtctcact attcctccga ttgacaattc taccaaacc 180
aaccatatta tgcaccaaac aaaaagagct ttgaagctca ttcttaatta attttgatca 240
gagaaagcct aattagcaat ataacaggaa ggtatcaagt agtagaacga agctattgat 300
gaacaaattg aaagaatagg tatagaggat cgaggatttg gattgctggt accc 354

<210> 1906
<211> 561
<212> DNA
<213> Glycine max

<400> 1906

ttttaaaaa agcggggtaa aattcatcaa tatataaaca agttgttgta attttgatta 60
aatgaaaaa gttgaggatt aaaattaact aaaaaataa ttatttttagc ctgctacatc 120
aacttaattg ataaaatttg taagtttttt aaaaattaga aataaaatat gtcaaattaa 180

tttgttgagg ataaaaattcc tctaaaaata aatcgaaggt agaaaggaca attatttttaa 240
 cattccatgt caacttatat ttgaaaaaag ataaaaagtt gaatgtaaaa aatgaaatta 300
 agttttttttt aaaaaataac ttagacaacc caatattcgc agaattctat caatgacatt 360
 ggtaggact atgggtatgt ttggcccaaa ggctctacac acgttcattt ggatgaaata 420
 aatatgccag aacatgtttt gtagccagat aatacagtgt ttaaagccct aaacatcgag 480
 actgagagag agacacacac atagccctat aggagcatct ttagtggtaa atcccaagtt 540
 ggatttaaac tacttttttg t 561

<210> 1907
 <211> 333
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1907

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 gaaattgagc cgctcggaat tgaaaaacgg aggctctgag aacaaactaa cgacaataac 120
 ctttaactcg gatgtctgat agaaccctgt aatatatcaa gacgctcgaa attgaaaacg 180
 gaagctctaa taaaagtccct acgacactaa cttttgactt cgatgtccga ttgagccccg 240
 taatatatcg agacgctcct aaacgaaaac agaaactttg accaaattct aacgacaata 300
 acctttgact tcgatgtccg actgcgcccc etc 333

<210> 1908
 <211> 248
 <212> DNA
 <213> Glycine max

 <400> 1908

ctcagtcctt gagaaactga ttcccagaag acaacaggga gtgtttattg ctgaaaaccc 60
 tagccttgca acaagttcta gggaagtaga caaggagatg gacaagaaaa tccgcagtat 120
 cgtgagtagc attttaaaag acgcctctgt tcctgaagct gatgaagatg ttccaacatc 180
 ttccacccccg aatgtttctg tgctgatgt tgagaaagat gttccaacat actttcggtc 240
 caaatgct 248

<210> 1909
 <211> 76
 <212> DNA
 <213> Glycine max

<400> 1909

agcttttgga ggtcaaggag agtggacttc attctgtgat gtttttagcac tgccgatgtt 60
 tgggatcgtg ctcttt 76

<210> 1910
 <211> 561
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1910

tggactttta tgatttttga atgatgggta tgaaaacaat agatataata ataaagggaa 60
 tgggtactgat aatttgagaa ggagtagaag aaagggagca tcatacgagt gctggaagcg 120
 attgcggcat ttgttgcagc gaaaaagctt gtctgggaaa ccaacgtcgc cgacatgca 180
 gcaaacgggt tgaagatcca ccattgggtt tgggtgtcaca gggatgaatg aaaaaagaa 240
 gaggaaaaat aggcgaattt ggaggggtggg agagacaaag agagagaccc agaaagccaa 300
 agagtaaaca agaaccctaaa aaagagagag aatataatca ctccgagaag agagaagaaa 360
 cacaagagaa gagaggagag agaaatagag atagagagag ttacacttt atatagagga 420
 agattagaag tgcggaactg ctcatgttga ngtgggtgat ggaactgat catagtttat 480
 tttttaatta ttagaaattt aagaaactct attggatata ttttttaaaa attaaattta 540
 ataaaagaat tttttttaaa c 561

<210> 1911
 <211> 460
 <212> DNA
 <213> Glycine max

<400> 1911

agcttttgaa tcctagaaaa accaatgaat tttttagacc aagcctcatg acaagcctgc 60
 gaaagtcctt ctgattctgt ttatacat ttagactttat ggcattgagat gaagtgcaaa 120
 gattggatct cttgttagtt gttattaatg aatagcttaa acacttatgc ttgagtgaaa 180

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cagtagccgt gagactgtgg tttaagctac tttccttgat atctgtttta tgctaaccc 240
tatctaattg ttcaggttac attttattct tctctttgga taactgcata ccttggtgaaa 300
gacaagtgat gagggcattt tacttcattc tcttatcatg taatcagtaa tttttgctgc 360
atacaccttt gtacatgatc actacatggt attatcactt gaggacaagt gagctattct 420
ctttttgctt gaggacaaga aaaattgtaa atttggggga 460

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<210>	1912
<211>	427
<212>	DNA
<213>	Glycine max

<400> 1912

tcctcctcag atccctcttg ttggactagg cttaatntag actgccttcc tagggtttaga	60
ctaacttaaa ctaagcttca tcctcagatc ccgcttggtg gactagactc aacttaaata	120
gcttacaaaa gtttagataa atttagccta agctttttcc tcaaatacct cttggttgac	180
tagacttaga ccaacaaca tattttaaac caaaacttaa tccgcagatc cctcttgtaa	240
gactaagttt caattctgct tcattcaagt tctaaggcaa aaatcatttc ccaatgctaa	300
agtcactctaa ctaggcacac aaatggttga ttagaccaa agcatacaga atttaagcac	360
tgaagaatc attgaacaca agaaacacaa tcaattagat attagaatat taaatcaatt	420
gttat	427

<210>	1913
<211>	599
<212>	DNA
<213>	Glycine max

<400> 1913

agctttgttt	acatagatac	atagatacaa	cttttttaaa	atgtaacgga	aatgatgaat	60
aaaaatcaaa	agaatttgaa	tgaaatgact	aagacaatga	tgaagattaa	cagaaaacca	120
gaggaaatgt	tcaacatagt	tcatattaag	gatcatgtta	ggaatttcaa	gactattctt	180
aaataaacat	ggcataatat	aacacatcag	tattgcttat	attagtttac	tttaaagtga	240
gcctcatggt	gaagtgaagta	ggtcctttga	tgcatgatgg	aaggatcaac	tagagcatat	300
ttagcatctg	ctagacagta	atgacaatat	gcactttgtt	aaatacaacc	aagatttggt	360

gaacccaact acattggctg gatggataga actcatatat ttctatggac tcataggaaa 420
 acatcaagtg accatgaccc attttggata gtgtgttcat cctgaccatc ttcaaaagca 480
 gctctgagct aaaaacttat cctaaatgga actcattgta ctaccaaatt cttttctatc 540
 acttttaag tcttaccgaa tgagtacaaa gtgactggca acagtttgat gagcaactt 599

<210> 1914
 <211> 538
 <212> DNA
 <213> Glycine max

<400> 1914

gacactctga atctaagctt aataggatag atggacctat ggcacccctc tatgacctta 60
 attcatgaaa gtttcactcg gtcatatacc aaagtgtaac aatccatttc catccttcaa 120
 tggtttatgc agttagtctc aaagccttat atttccttat tgtgcaaact ataaggggtg 180
 tcatgggtcg gtcgaaccg gttttggcca aattcaagac tcaaccaat caaatttgat 240
 cggtttggtt tggttcagtt ttcacaattt gtttttgaaa cccaacccat tcattaacgg 300
 ttcgattcga ttcgggccaa cagattaccc atttaaattt gatctcattg tcaatatcat 360
 gattcatcca aatatccaat attattaaca caatattgtc aaatgtctta aatagttaaa 420
 attgatcatt aatacaatca cactatattt aaatagacta tacaaattaa acaaattttc 480
 ttatgagatt actttatagt ctgaatataa ctgtttctac aaataatttt tgcataag 538

<210> 1915
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 1915

gcttgactac gaccacaccc tagctcactg atgttcaaca cataatagat catggtgctt 60
 ctagacatat gaagagggta atcttttcct tgcacaaaat agttctcttt ttttttcccc 120
 ctcttttggt actaattgaa ctcaagagtc ttggaggaca atgaaacata tatatattgc 180
 ggatttggt agaaaaaatt ataaacagta ggcattgaag acttactaat aaaacactcc 240
 agaatttcat attactcatc ccattcttag ggaagctcag agtatatgcc aacattgtta 300
 aagaccaaga atgtataaaa ataagaagaa gaatgttaag ttatatatat ctaatcccta 360

cttgataatg aaagcttcgt tatttgagtc aaacttctga tgccttcatt ttgtttgagt 420
 ggaaacat 428

<210> 1916
 <211> 424
 <212> DNA
 <213> Glycine max
 <400> 1916

cttctcatca tcaatgaaag tgtggattcc cttgctctga agagtgttgt agagatggcc 60
 agtaaaagca ctacgtgtgt cttcaccct gaagctgagg aacacatcgt aattggagga 120
 ataggaagag gaacgtgatc cccaagccat gatatgaaat cttagtatga atttggatgg 180
 ctgcttggtg ggtctccaaa atcaaacttg agtaggtatg aaactgataa gtgtgtatta 240
 ctctcagaac catacatatc tattatcaga tttttatccg gcatatttac ctttatggaa 300
 aatctttctc tgttccggct ctttttctta gaagattaaa cttttggctg ggctaaccgc 360
 gggatacggt tctctccgca ctatctaaac tctacaataa ataccttttt atttgttata 420
 atca 424

<210> 1917
 <211> 445
 <212> DNA
 <213> Glycine max
 <400> 1917

agcttatcca aacaagggtcc actatatatt tttttatctg gtactgtgcc atatatatgg 60
 atgggtggtt tggacatttg gatttgtgta gttgttgta ataacaatga tgcttatgcc 120
 tttgggcatg ggtttggact agttgtatca aactatgctt gtgtattgga attttggggg 180
 aggatttcca cttgcttact gcatttttac atgtatatta tgtaactggg ttcattttat 240
 tgctacatgt gaggtataac tattctatct tttaaagcca ttgcattcct tttttatctt 300
 tttgctaaaa gtttaaagtt ggcactgaca ggcatttgaa tgcattttaa ttccacttga 360
 tttgcagaga tgttggtgct tgaaagctcc acacctgctg attcagttct agagttcttg 420
 ggttcgatgc tcttgtcatt ctgca 445

<210> 1918

<211> 894
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1918

agcgaggacg ggggcgagcg aaaaacgaca cagcgcatca aagcggctgc atgggaaacc 60
 actataatct ctaggtggtn ngnttggtga tgcctcatat cgaccttnaa aaanaaaccc 120
 ngcgccgaaa aaagcacatg aaagtacccg gaagaactct gcccaacctt cgacaaacgt 180
 gagagcgagc gcaaaggggg gcagcaacgg cagcagacac gtgagcacga gccgaccgga 240
 gagacctgtg agaaggagac aggagtgggc gagaaaccac acaaggaagc aacgggaaga 300
 cgctcggac agaagctggc ggggaagact acatgcagcg gccgcgagga aaacacgggc 360
 cagagcagga aacccggggg agcgggcaca ctgacgagga gggacgccgc agagacaatg 420
 gaccacgaga ctaccggagg ggagcaaggg agaacacgcc cggaagggga aaaaaagcag 480
 cgggaccag agcgaaccgt aaatcaaggg aagagacggt ggccacgagg aggtgaagaa 540
 aaaaggagcg aggccggatc ggctggggga ggggcagact gaaagggaca gaaggtagga 600
 agcaaccaag gaacggatgg gacgagagaa cgcaagggc ggtaccggga gaacggagag 660
 ggaaggaaga ccgcggagcg gaggggacgg acgaaatcgg ctgcggggag aggataagaa 720
 aggacccga acagacggcc cgatgcccag gagcagcgcg gaagcgacgg gaggcaaagg 780
 agaacagaca cagcgcaga gaagggacgg cgatgagcag agaggagatg ggaggcgaac 840
 gggacggaca gggatagaga ggagacacgc caccgtaacg gaactgaaca cgat 894

<210> 1919
 <211> 181
 <212> DNA
 <213> Glycine max

<400> 1919

agcttgctgc ctatataaca gacttgagta cccctaaat gactggtaag aacatctgcc 60
 aggtgataat ttcaattgat gaagctaccg gtgacgtctc tggataaaat ctacagttag 120
 gaggtagaga gaacattgtc atggaatttc aatagatggc actgatggag gggaggaccc 180
 c 181

<210> 1920
 <211> 918
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1920

acgaggtaac gaatgtgaat aagcaaccga ccacgagaag gaatccggaa gtggcaatgg 60
 aacgaaaaat cannaaagnn aannnnncag ggtactgctg cactggcata ccatcacaan 120
 agannaacgt gtggaagggg aatgatataa ccaacaccac ttttttttat taaagcgaac 180
 ggccataacg agggaatggg gaactaaaag ggaacaccgc ccccatatcg acaagagacg 240
 atcaacgtaa gggacaccaa cacacagcac gacgcgacac aaacaatccg aaaatgcaga 300
 agactgaaag gaacgacgat ggaaagacat aaacagagcg taggccggaa acatggcagg 360
 acacggacaa accagaggaa acgaggggga aacacaagaa cggaatcaac gcaatgacag 420
 aagaaagcga agcaacacgc gacagagaaa acgccataat ctcacgcaac gagggaccat 480
 aacggcgaaa caacagacga gagcgaagat acgtatgcaa gaccaaattg atcgaaaaga 540
 acgacagaat cgacggcacg catcgacaga ccgaacgaag acaagggacg accaaataaa 600
 ttgacacgaa agaacgaaac acaactactt cacgggaatg aatagaacaa gcagaatgaa 660
 acacgacggg acagattaaa tggatgtagc aggtggggaa acggaatgga atcgaagcga 720
 aaccaacaga catgccagaa gagtgcacgg acaagaactg cgacggtcag ggaaagagaa 780
 agacaggaac agtcacggac gcgaagtgga tatggccaaa gaaataaaaa cgccaccggc 840
 tgggcaatga tagatagagg tcacacacac gcaagagaga cgagaagaat aggnactgga 900
 attgaactgc aaacaccc 918

<210> 1921
 <211> 178
 <212> DNA
 <213> Glycine max

<400> 1921

agcttatata tccgcaaacy ggccccactt ttcttggtc gccatatccc ttgccttgcc 60
 ttccaagtat ttccgtggca ggccactac gccgttgca gtttgcttca tgcgatccaa 120
 ctcttttgcc gaatcctcaa ccacagctac aatcttgctc aaggaggagc gattctta 178

<210> 1922
 <211> 466
 <212> DNA
 <213> Glycine max

<400> 1922

tatgcgcata tttccttaag aacgttcact tgcacaatac attctattaa ctaagaaaaa 60
 tgcacccata tacaatcaag gcagcttcgt tacctagatt atttacatgt acttccaagg 120
 tgtatttggt acttacatca cacacatctt cttggctaaa ttacatata tgcatactca 180
 aagcattttg gggtagcaaa aattgcacat gtgcacatct tggaatttct aatacctata 240
 catacacaaa cttcatgatg aatcttgact atctacaata aggcgctaca tttcttgctc 300
 ttttcaagtt tttgctacct aaagccgcat gcaaattcaa gtatatatttc ctttgctgac 360
 taaaattgta ttcaaattaa aacgtatata tttttttgta atgtattttc ttacataaac 420
 atgcaacata tttatatata ttttttttg tgagacattt tgacta 466

<210> 1923
 <211> 490
 <212> DNA
 <213> Glycine max

<400> 1923

agcttaatca tacagcgaag aaaattaatg aattgagaaa gacaataaag agtactttat 60
 tgttggcctt tttccttgc taaaattgag accaaattac gtcctctgt ccgaacccgc 120
 ctttcccttc gctggtctca tcgacaaatt ttatttgaaa aatttcaagt tggccctacc 180
 ccacacgggt gtccctttcc acttttgccc ccatttctat actcacgttt attgcctcca 240
 gtcctctgt ctctttcaca ccccttttc ctttttgcca ccactacac taccacttc 300
 cccgcatcct ctttctttct ctgttcaact caaataaaat caaatgttat ctaagctcta 360
 gttcacttac attcacttcc agtttcaccc tctttctagg tctctacact ttctttctag 420
 gtagagctcg tgaaacaacc actcttcaac tactctcact cacattgcgc ttctcacttc 480
 actttttttt 490

<210> 1924
 <211> 395
 <212> DNA

<213> Glycine max

<400> 1924

tgactagttt gcaaaatggc atacttgaaa tatatatgtt ggatcaagtg gcctcggaat 60
aattaagaag ggggggttga attaattatt gatgtgcctt gactaattaa aaatctatcc 120
ttcttaatgt tactagattt aattaagttt ttactacaaa gttaagaaag taaagaacag 180
taattgaaac ttaacccaaa gtaaaaacga taattaaaag agcacaacga aaattaaaag 240
tgtagggaag aagaagacaa acactataat ttataactgg ttcggcaaca acctgtgcct 300
acatccagtc cccaagcgac ctgcggctct tgagatttct tttcaacctt gtaaaaacct 360
ttacaagcaa agatccacaa gggatgtacc cctcc 395

<210> 1925

<211> 280

<212> DNA

<213> Glycine max

<400> 1925

agcttgttgt tgccatggc tgtaggttaa ctttgttgct tgattatgtg cacttcgcat 60
tcgattatgt ttattcaatg agtttaattt atattaacta tcaatatatt cggtaattha 120
tgtgatgcta aggcaagttt caattagatg tacgcgttaa ttgtaaaatg actttacact 180
gataatatat ataaattaaa ctcatccaat attgtctaac ataacttact caacctgaaa 240
tggcatcggtt attacaggga tctgccagg tttgggaccc 280

<210> 1926

<211> 474

<212> DNA

<213> Glycine max

<400> 1926

tcctatagaa actcaaaatc ttctagctgt gtgcaagagg gaaagcatgg ctgagtatcc 60
atcacccgaa aaggatgata ataattgtaa gcacatggat gactaccctt cacctcaaac 120
agataatcca aagcctttct ctcaaataa caaacgaagg cggcataact tgaactccaa 180
caactctcat gtttctggag attcaatccg aaccagccag gatccgtgct cctctacaat 240
aactactgct gcaactgcac tccaaccac taatgctgct gctggcacag ccaccaaac 300

tgcaccgaaa aaacattttc tttccgcact ggtggagttt tcgctgctag agtcccttga 360
atcaaaggac agccttgctt caattaagac accggattct gacgtggaaa atcttgagtc 420
atccatgcct ccaagcttgc gcaaagttct tcaaggaaat gaaaagtgag atgc 474

<210> 1927
<211> 1054
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1927

ccgcacacca acgagagtga gaagaacagc cacacgcacc gcgcctaaca cacgaaacac 60
gacaccacac acgccggacg cntacagaat acgaagcatn naactcccc aagccnccnn 120
ccccnnnnn ggagatggaa tggaagnena tngnacnna gnnngnnaaa nnnnccncgg 180
gcggaaggag ccaaccacn accagagaca aaaagaaacg atattaaatt aaacacacca 240
agaaaaaaaa ggaggggagg ggggaaaaca aaagaaaaaa caacagagac aaaaaacaag 300
acaaaaaaaa aaaaaagaac gagagagaaa aagaagacaa caacaaaaaa aaacagcgag 360
acaagaaaga aagacgaaga gacgaacaga aaaggagaaa caaaaacaga agagaaaaca 420
aaaacacgcg gcgaaaacaa agagaaaggg aaaagacaga cgccagaaaa aaaaagagac 480
aaacaaaaac accaaacacg acaaaagaag gcgccaagaa aaacaaacgg aaacaaaaac 540
aaagggaana aaaaaaaga agaacaacac agagacgagg aaaaagaaac aacaaaaaca 600
cgaagcgagg aaaggaaaac aaccaacacc aagcgaacaa agagaaaaaa agcaaaagaa 660
gagaaaaaca aaaacgcaca cagaagagag acggaagaga caaaaccacg caagcgaaca 720
acaccagcaa cgcaaacaga aacaaaacaa cgagaacaac aaagagaggg aaaaaagaa 780
aaacacaaag aagaaacaaa aaacaaggag aaaaagacac caacacgaag acacaaaccc 840
aggaccgaga aaaacataac gagagaaaaa agcaaaaaaa cacgaaaaca aacaaaaacg 900
cgagaaaaac gaaagaagac aggaagagaa aaagaagaag ggagagaaac aaaacgaaaa 960
caaaggagaa aganaagaaa aacgaaggag aagaaaacaa acaagaaaag cacaagaaaa 1020
gacaacggga gaggagaaaa accaaaaaag acan 1054

<210> 1928
<211> 437

<212> DNA
 <213> Glycine max
 <400> 1928

agcttgtcaa gatccggatc ctactattta aataccaatt ttcaataact cagtgattca 60
 taagaaacac atacacagag ggggtttata aggggcaagg tatagaactt aaactatctg 120
 cattatttaa aagctacacc aagcttacct gctcaagatg tatgcttcca ccattctcat 180
 tagtaatgcc caccgaatgt gaatgagaag tttttgagtc aacaatcccc tctcctgtat 240
 cttttacacg atcaacctct ccctgacttt ctttgccacc accagacata gctctaacag 300
 atgaagttgt tgctccacta taaaaattca gtgcacatcc atgagtacgt gcacaaatag 360
 caaaaaaaaa acatttagca gctatcatat tcaataataa aatggacatt atggttctaa 420
 atacagtact acatttt 437

<210> 1929
 <211> 474
 <212> DNA
 <213> Glycine max
 <400> 1929

tggttgattta agcacagata atccatcaat tgcttctgat ggtttagcag catttcagcg 60
 tgtaagcaaa ttgacaagaa aagtgaacct ttttgaaaag gattatatct tcatcccat 120
 aaactatagt cttcactgga gtttgaatgt catttgtcac cctgctgaag tcatgacatg 180
 ctacagagat gaagaaacta aaggatctcc caaagaagct tgcattctgc acatggattc 240
 ccgaaaagga attcatcaag atctacacaa tgttttccaa agttatctat gtgaagaatg 300
 gaaagagagg cacaacaatg tgagggatga tgatgtttct tctatatttt tacatcttcc 360
 attcgtgcca cttgagctgc ctcagcaaca aaatgcatac gattggggca tctttttgtc 420
 cactatgtgg aacgttttct ggacatgctt caatcaactt caaccgtcca tgat 474

<210> 1930
 <211> 886
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1930

caccccgacg ggggaggaga gacgaacatc aagggggaca taaataacat cgccggagag 60
 acaccccccc ncagaccccn ccnaactga tgctgaaacn cncagttggn aaaacccccg 120
 gggcagcaag cccaagcaa aacgcaacac agcagttttt tttttttncn cccagaaaag 180
 acagggggga aagaccctaa gcggagagaa cgaaaccacc tatggttgta atacaaatat 240
 acggcaaggg gaaaaaaaaa aactgccaaa cacaaaatth accttacacc acggggaata 300
 tgaaaaaaaa caataccatg gcgggagaaa aaaaaaagaa gggaaaaata aggcnaaca 360
 tcataaatca aacaagccaa aaggaaaaaa ggaccaatcg gtaaaaggaa gaaagacaaa 420
 aaaaaggga aataaatgc agaggaaaaa aagaaaagga aaggcctaaa taaatgggac 480
 aaaaaaaaag gcgaaacact gtaattaaag aaaaaagatt aaaaatagcg ggaaaaaac 540
 aacatgaaaa aaaaaaggga gaaaattaaa acacagaacg ggggaaaaag ggaaaaaac 600
 gggcaagaaa agaaatthtt ttaacgggaa aaaaaaagt aaaaaagaaa accccaaatg 660
 atttggggga aaaaaaccca aattggaaan ggggccccaa aagaggggaa agggacaaaa 720
 aaccatgcga ggaagaaaaa aaaaaaaaaa aaactgaccc caagggaaaa aaaagggtaa 780
 gaacaagctg aaaacaaaga gggggaacca cacgggggca aaaaggaacg ggaagaaaca 840
 accgacaaaa agcaaggaag ggaggacaat ggggaaaaag aaggaa 886

<210> 1931
 <211> 647
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1931

ccgcaagctt cctgcacaat gactatatta ttaagatttg ttctcaagct ggtataatct 60
 tatcatgctt cagcgagtca gtggcactta cactaatcaa gtgtcaagta ccaacgaagc 120
 atcagtaagg aaagttagtt tacaataatt tatctccaca agtaatactg agttctggca 180
 acaaagaaaa accataccaa gaataaatta gaaaaggcac aaaacagtct accttgcac 240
 aggaattcca tggcagatta cttcattaac tgacctgta gataaagcaa atttcattct 300
 taacatatac catggcaata agagaaaaat atgacattac agaaggaaag tacctacgtg 360
 cagcaagatt tagggaagaa aaggtaattg agaggtgatg gatatcctcc tgaaaaagta 420
 aaaagtcaga aaaaaattca ttaccaatga ccatttgtaa tagccatag acaatgacat 480

catgaaactc aatgaaccat catttggaag aggaattata acaaagttag gaagcatcct 540
 ctctgtaatg ctcaaggctt ttttttgact ttttcaaatt ctggtaagca gatagcagcc 600
 ttgatataca ttntgggtatt tttttggccc ccccttctct gacccat 647

<210> 1932
 <211> 484
 <212> DNA
 <213> Glycine max

<400> 1932

acactatata atacataagc cttagttaca atctaaccctc aacaatgaag agatctaact 60
 accttttctg atgggtagca caaaaaacaa tgatgaaagg agaaaatgaa agaaaagaac 120
 aatggaaaag cttttccttc accaaatatt gtttttgtct tgcaatggag tcttccctta 180
 aaatggagat ttggccctt tttatataat cccaaaaaat ctagcttttt aatgaagatc 240
 ggcttaaact aaatcttttc caactcaaac caaaattgct atagctttac cttttaagct 300
 ttctcaatct tttctctaag atgcctttca acccacttca aattcttaaa aaaatccatt 360
 aattagcaca agttacctat ttaaattgatt aacttaagag aaaaattgcc tattcattaa 420
 atttataatt aaaaagaacc aattaaatcc taatgagaga aaaaaattag ataattcctt 480
 aaat 484

<210> 1933
 <211> 187
 <212> DNA
 <213> Glycine max

<400> 1933

agcttgggtct aaaattcccg aaaaattagc tttttatgat tatatcggaa ataattcagc 60
 aaaagggggg ttatttagag caggttcaat ggacaatgga gatggaataa ccgtcgggtg 120
 gatacgacct tctgtgtata aagaaaaaga tgggcatgaa ctctttgtac gctccccccc 180
 ctctttt 187

<210> 1934
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 1934

cttttctagt tagagaccaa cgtcttgggg ctaatgtatg atctgctcaa ggacctacag 60
gttttaggtaa atatctaata cgttccccga caggagaagt tatttttggg ggagaaacta 120
tgcgtttttg ggatttgcgt gtccttgggt tagaacctct aatgggtccg aatgggttag 180
acttgagtag actgaaaaaa gatatacagc cttggcaaga acgccgatct gcggaatata 240
tgactcatgc ttctttaagt tccttaaatt ccgtgggtgg cgtatcttca gagattaatg 300
cagtcaatta tgtctctcct agaagatggg tagctacttc tcac 344

<210> 1935

<211> 297

<212> DNA

<213> Glycine max

<400> 1935

agcttgaagc ttcctttaca tatattatat agatatatag atataataga taatagatga 60
gccactaaca agtaacaact cacatcttcc ttaaaaaaat ttgttggtac atgatatttg 120
agttctattg acataacatt ttagaaatct acttgctcgt ttaacaaatc tagtttcaac 180
tatgataata tatactacat gtgattcttt acttaagaaa taaataatta agaggagggt 240
ttgaattaca tcgctaactt tgataattat tatattattt ttataaatta atataaa 297

<210> 1936

<211> 546

<212> DNA

<213> Glycine max

<400> 1936

ttctccacta agttgcctga tgctgaaat gtcttttctg atggcagtgg tcctagatgc 60
agggaagaat ttctccaaga acaccctctt aaggtcatcc cagctgaaaa tggacctggg 120
agcaaggtag tatagccaat ctttggccac tccctctgga gaatgaggaa aagtctttag 180
aaagatatga tcttcttgga catcgggggg cttcatgggt gaacaaacaa tatggaactc 240
cttaagatgc ttatgaggat cttcacctgc aagaccatga aacttgggca gcaaatgtat 300
tagtccagtc ttgagaacat atggaacacc ctcatcagga tattgaatgc acaagctttc 360
ataagttaaa ttaggtgcaa ccactcctc aagagtcctc tcacgaggtg gaggggtgagc 420

catgttctaa gtaggaaaat tagtagtgga atgctcacia ttagatattc agaatacccc 480
 ttaacagaat gctcaaaatg cacagaatga ccaggatgca cactatgcct aactaatcta 540
 tgaaag 546

<210> 1937
 <211> 620
 <212> DNA
 <213> Glycine max

<400> 1937

agctttcaag cacaatccca acacttcagt tttctttttt tttttttttg aagggtcaaaa 60
 ctgaaatccc ttaagctgtg agaataaaac gacttatggt tttattacta ctattttgca 120
 attggataaa attaatTTTT caatcacaga tttacttta caccatgtag attatgaaaa 180
 ttaacattac tattgctcga gacaaataat agaagtaaaa aataagtttt aattcatata 240
 ttacacaagt caaatgtaat atattatcat tttttataat tattaattac aaaagaagta 300
 aaaaattatt catagtaaat aattaaagta aattcttata tatatgtcac atatataaag 360
 tttaatcatt ttatttatag aagaatattt aaatataatc gaataataata attatgaata 420
 taataaggaa cataattaaa ttacataacg tgggaaaatg taaaaacacg tgtatgaata 480
 gtactttttt taccgttaaa aataagttaa atatgacact ctttaattttt tttgttgata 540
 aatacccatt ttgatattgg tccctaaaag tgggagatgg taacaaattc attcatgcaa 600
 gataaaaaaa aaattaaatt 620

<210> 1938
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 1938

ctataaaata cctcagcttt gggtcacaat gattcctttg gattcataat ggatctcgta 60
 ctttaataac tcaacgaacc aagccatcat cctcttggct aacttagact ttcacaacat 120
 tttagctatt aggtagtcga tccaaacatt aatcccatgt ttttgtgaat actaccgatg 180
 aactgagca gtagtaacca atgcctatgc cactttctcc attacctaata actgagtttc 240
 ttgatcttgt aacacttggc taacaaagta taccgatttt aaatcattgt tttcttcttg 300

gaagaggaca tcacttatgg cttcaacgga gaccgagagg tatactatga gtatcttact 360
 agtgccagaa gttga 375

<210> 1939
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 1939

agcttataag tatgtttaca tatggcaa atataataa aatcactata catatataga 60
 ataaaagtga tacacaagca agataactcaa actcatgaat ttccaaattg gttcctaaag 120
 tatacttaag caaatacata ttttttatat atgaaattga aatctaaaac aaaatcacta 180
 catatgtatc cttatatata tatatatata tatatatata tatatatata tatataacac 240
 attagaatct tatatacata taatcatata attttatata tggaaaacaa atatacatat 300
 atcactaaac atactccaag gcaaccatag gaatctagcc acgagaaatt tactcaatag 360
 aagattatga tcaattttc 379

<210> 1940
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 1940

tctactacac gccgaggaga ggcgaaacgc cgcgttttga aatatgatag ctgcgatagt 60
 gacaaagcga cgctgcttgc gagaatcggg gagttggacg agaaattgag attgaagatg 120
 catgagattg aggaggcgga gacaaagcgg ggtcggccta gacgccttca ctctttcttt 180
 ggcgggcggg gtgttttttt tccgctttac cccatcattc attcatgggc tttggaagtc 240
 tcctttactc cttctatcat cattgggaac tctcttttgc tcttgattgt gatcgtttgt 300
 gcccgtaga ggattttttt tttcatttgg aatttttggg gagcaccggg tgcattgtaa 360
 aatcaaa 367

<210> 1941
 <211> 225
 <212> DNA
 <213> Glycine max

<400> 1941

agcttgatga tttcctttta tagaagtga attggatgat aaaatctcaa tttccttttt 60
agataatgta aaataggaaa atatatgatt ttatcttata tttcctctaa taacagataa 120
tattcgatgt tagaagatat ttttatcttt ctagtagaaa atagaatttt tctcttacct 180
taattaaatc cattacattc tctaaatccg agttgctgc tcagc 225

<210> 1942

<211> 487

<212> DNA

<213> Glycine max

<400> 1942

tggtaatggc gtcctccagc ctatcggaat tggctttgga tctagtggac tctgccatgg 60
aagcaactca atgagagcac caaattgtta gagcacaatt tctggacttt gagggccagt 120
tcctctaaga agaaaaataa agagtaagaa ggataatttt catttcatgt ctgccttatt 180
acattatgct agtatttaca caacaaagag aaatagttgg aagctaaggt ggggaaaggg 240
agacaatttg tctgctcatg ttgggttgta tacttggttt catgatggag atcaaggaaa 300
tcctttaaga gaagaacgaa gagcatggaa gagggagaat ataattgggc taggaggccc 360
aataacaagg gtaagaccta agaaagataa ggagatgttg cttgaaaaaa agatctactt 420
acaagctcaa acctaaagtg agaaagaaga acccaagata catttgatct aaggcgaata 480
acagtga 487

<210> 1943

<211> 323

<212> DNA

<213> Glycine max

<400> 1943

agcttcttac aagagactaa gaaatttttg acgaaatttt ttttagaggaa agatcttggg 60
gaagcctcga tcttgcgga gctctttttg tattaggaat caagatatta agagatcgct 120
cttaagggtat cctaagggtg tcacaaaaga gttatatcga taaggctcta gatagattca 180
acatgaaaga tagtaaacca ggagatatcc cgatagctca aggagacaaa tttagtctca 240
aacaatgccc caataatgac cttgaaagaa tagagatgca caagattctt tatgaatcaa 300

cagttggaag tctactgccc cct

323

<210> 1944
<211> 435
<212> DNA
<213> Glycine max

<400> 1944

tgcccttgccc cttgatatat ttgagggact catgggtcact atgaatgaca aattccttgg 60
gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tccttatcat 120
aagttgaata gttaagggtg tgaccactta acttttcact aaaataagca attggatggc 180
cttcttgcac caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240
atttttgaaa gtttggaac gcaagtatcg gggcattagt aagcttttgc ttaagaacat 300
tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac atttttcttg agcacttcat 360
tgagaggtgc tgccaatgtg cttaaatect tcacaaatcg tctattaaaa cttgcttagc 420
catgaaaact tccta 435

<210> 1945
<211> 440
<212> DNA
<213> Glycine max

<400> 1945

agcttttgcta agagcaaaaa ttaaccttta atattatatt atacaaaata gattttcaat 60
aataatcata caaaagtttc tgggtatgtg aaacaatttg agctagctta agagttatat 120
atcaaagata taaacattta aaaccaagct actcaagcaa aagatttaga aaatagacaa 180
attagaagca ataagaagag taaagcacac atgggaacta tcatggttca cccacactgg 240
actacattta gcctctacaa ctgtaggctt tccactaata ctagcaccaa tcagatattt 300
tttctttcat ggcgtcctc cccaggatcc tacacctaaa tattctctaa gtctctataa 360
gttctccac aactttttca ccaacctct tcaaggcacc cctacettat ctaatcctcc 420
ccaggcctat ctacccccct 440

<210> 1946
<211> 554

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1946

ttctaattggg cctagggggg cccagggggt aaggaatgcc cccaaattga ccatttggcc 60
 cccattttga gtattttgct catttccttc tgaaacgtca caaaacccta tggattgcgc 120
 agcaattggt gttaagcaac tcaactcggc cggcgaaaat acacatgttg acaaacaatc 180
 atccccggac gaaattagggt tatgagaata ccctcattat cctaataaga ttaacatata 240
 taaaacattt tctaacatta ttgatgcaca cattaagtta catcgagtcg attcctcaca 300
 ctcgagaatc caaagaatat ttaccaaata ttgatccctc gcatatgaag tcaatatccc 360
 aacattagaa tcataatctc atactatntg caatcaaaac gttatgctct attcctagca 420
 acttaatata aagagtaaaa tcattcagtt caaattctaa gagtactttc caatcaaact 480
 taaaatccaa tttcatgaaa ctagtgatca aatagaaatc agcattacga acaaaatgaa 540
 atcacccata atgg 554

<210> 1947
 <211> 293
 <212> DNA
 <213> Glycine max
 <400> 1947

atgcaagctt ttaactggga aatgctccaa gaaacactat cttctttttc cgattctctg 60
 gctgcttgct ccagtaaagc acaagaagaa atatgagcac cagcagattg cccattaga 120
 taaatcctat tacatagtaa caaaaaaag gaaaagataa atctcagttg aatgtctaaa 180
 tatatgatga aaaggaatct tgtatcatag tagcacgcca cctattagggt tcacctccat 240
 aattagctat gttgttgatg atgaacgaaa ttccccgcga agtatcattt acc 293

<210> 1948
 <211> 504
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1948

taagaccatt tctaattgggt tagataatnt atttttaatt gtttatccta tgctaattag 60

tccttataat atcacattat aattaaataa tttatatatt tcttgtttca ataagtaatt 120
 cttaaataat aagaaaatat tttttctcat aagtaattat tattatatat atataattat 180
 aggttaattt taaacaattt aatgtgacat ataaataatc taccatagtt aaaaaaatta 240
 acaattatat ctaaaaaataa accaatcggt aaataatgag cattgaagat gctctaagat 300
 aggaatactc ccataaataa taaatcatgc cattatgtta ttctgtatg aatatctaata 360
 catgtttctt tttttactcc ccaattttat tacctatata tcctttgaaa aatatactat 420
 aaatattttg atgtattttt taagagaaca aaggctcctg gtttaacaaa aagccaagac 480
 aggggaatta aggccattta aaaa 504

<210> 1949
 <211> 911
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1949

aacgacgaga gtggagggag tgatgaacaa cttatgaagt ggcggaaaac atctttgtgg 60
 tcgggatgtt ggtaaattgg ggggcccnnn cnnnnnnntt ctagcatgaa aagcnagcnn 120
 nnnntttaag aaaccccgna tgnnntnatt tacaagagag tgaggagaga gnggattttt 180
 tattttggga ggaaagataa tggggggggg gggtaattga ggaagcgtct tttggataag 240
 gagagaggaa ataaagagaa ggggtgtaag ggaagataag ggtgggaaag aagagagatg 300
 gggataaggg gagggatgga gatggaaaag gaagagagta gaagaggagg gggatgggag 360
 aggaagaggg ggagagaatg gaggggaaag aatgaagtaa gagagatagg ggaagaattg 420
 agaaggaagt ggtattggat ggaaaaggag tgggaggtga agaagaggag tgaaagaata 480
 gaggttggaa tggggtgatg ggtaaaaggg ggggagaggt ggataggtgg aatagaggat 540
 gggaaagaag aataatgtag ataaagaatt aatatgtgag aagagggaag agcatataat 600
 aaataggggt agagagataa gaagagagaa taggggagga tgggaagaga aggagtggag 660
 ggtagagatg ggaagaatag aaggtgggag aggggaaagt agagataagt gaatagagag 720
 gaatgtatgg aagagaagag agagagagga tgtaaaagaa gagagaagaa gatagtgaaa 780
 tagagggaag taagaggtag agtgtagagg agaaagtgag gggagggtaa atgggtaaaa 840

gtagagatgt gaggtaagga ggtagtaaga tagaaaatta ggggaaagag gtaggtatag 900
agaggaaatg a 911

<210> 1950
<211> 397
<212> DNA
<213> Glycine max

<400> 1950

ttgtaagcac catacaaaag agggtcactc tctttatgag ggtttttagcc taaacacaga 60
cttgtcactc agagaactat cacaatgtgt tgtagttttg gaatgcttca acttgttctt 120
tatagccttc acatctgcct tattaactc ccaagaaaaa ccattgtagt ggactccaca 180
cttctggagt aagtatggtc acttctacaa ctatcatgaa gtgacaatat acatccatta 240
tgaggaacct ttctaattggg cattctagtg ttacaaaga atgaatccat gtattgatga 300
agactagatt ggtgctccat tctgatgtag tgtgacttta ttactcttaa cactttcttt 360
aaatccttaa gcatttctga atttgattac ttcaaaa 397

<210> 1951
<211> 131
<212> DNA
<213> Glycine max

<400> 1951

cgacagcttg tcattctctca gactggctta gtggcttggt aaagagaatg aaatcagaat 60
catgaatttt tagacaaata ttctaccggg aagagccagc actctaagtg atgtttaaca 120
aaaacgtcat g 131

<210> 1952
<211> 386
<212> DNA
<213> Glycine max

<400> 1952

tggactccat ttctctagag tatggaacat agataaacca ctttctactc cttctctgca 60
cagctcttct gctcttgtgt cattgagcca catgagaagc accatgtcac cgccaatgta 120
ttttggttta actcttcacc tccatcccac ataagtactt catcaagtct atcaaagcgc 180

attaggttcc tcagtctacc tatccaagct ttggttagcc atgccttctt attcattgat 240
 agtggttagtt ggatagacga gcgagaggtc ataccttgat gcctgcgcac actttaatgt 300
 ccaccgtttc accacatgca tactgtctgc tgcaaccaca ttcggatatg atctgaaagt 360
 tgccctctgc ttgggattct gctgggt 386

<210> 1953
 <211> 183
 <212> DNA
 <213> Glycine max

<400> 1953

caagcttgtg attgttgaag tatatatata tatatatctt ataaagaaaa gaaaaccccc 60
 tgagggtcgc acttgcacat ttgagaagaa aactcattgg accaaaagct catgggaaaa 120
 gccccaagac aattgcgata gtaggggtgca tttgatgatt gtcctcatg cacactactt 180
 atg 183

<210> 1954
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 1954

ctgattctat ttatgcattt ctgactttat ggcttgtgat gaagttcaaa gattggacct 60
 cttgctagtt tttattgatg aatagcttaa acacttgtgc ttgaatgaaa caaaagtttt 120
 gagactgtgg ttttaagctgc tttccttgat atatgtctta tgcctaactt catctaattg 180
 tacaggttac attttattct tctctttgaa caactgcatg ctttgtgaaa gacaagtgat 240
 gagggcattt tggttcatcc ctttatcatg caatcaatca aaactgtaaa tttggggggag 300
 ttcttagtcg atgaatacga ctaacttttg gtataaaacc tgtgtaattg ttcaaaatct 360
 ccaatttatg gtattttgag gggttgcatta ctttt 395

<210> 1955
 <211> 852
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1955

ccacctcaaa actaacaact ccctcctccc tctccacccc accccttccc cctatttcgc 60
 tcccctccac ccaacacccc nccccnnnnn nngatatct ccacagcagc cncnnatttn 120
 taaccccccc taaaactct caccacaaccg cacacacgtt tttttctccc tcttgcctt 180
 cccacgggc cgccgtaca aaagaccccc accacgcaca acccccaaaa gaaacaccac 240
 cccctacaaa aactaccgat caacccaacc accccccccc ccacaccctc ccacactccc 300
 acccaacca caccctncc caacacatca taccaccca cccacaccctc cctccccaac 360
 caccctaccc acacccttc cccacacccc ctcatacca acgccccac ccacaacccc 420
 cacctacccc cactcccca ccaccatac cggacccct acccctcca ccccgcgccc 480
 ccaccccacc cccacacccc cccacgcccc caataaacac ccgcaccaca accccaccac 540
 cgaacccac accccctac cccgccccac cccccctg cccccaacc tcaccctcgc 600
 ccactccac ccaacacaca ccctaccccc aaccaaccac catacactca cgtactccca 660
 cccaccacc caccacacac tcccacaacc cccccccca ctaccacacc accacataag 720
 caaccacccc cccacaatca cccccatcc cccacacaca cgcacccct ccaacaacta 780
 ccaccgcac tctcttacac gaaaactaca ataccacaa cctaaccac cacacacgac 840
 caccgcgaca ca 852

<210> 1956
 <211> 674
 <212> DNA
 <213> Glycine max
 <400> 1956

tttcttgaaa cggggattct taaagacctg cggcatgaac ctcaaatag gttagtggaa 60
 attttttttt tccgacaccg aaacttctgg ggggtttagg gaaaaaggat ctccccatta 120
 aaaccgttta taacttacca agttcttaga caagttttca ttttctggc ctaccactca 180
 ataaaactcg acgatgttca ttagaaattt gtcctaaaac ttttatctga acggtagtta 240
 cattctttcg aacgtggtca tgtttacagc ggtgtcgcat gttccaagga ggcgaccttt 300
 ttttcaatgt aacgggtcta ctccacctct cgtagcgagc ttctctattt tcctccggat 360
 gttgttattg gttctcacgt ccttttaac gtcttcggtt ttgctagcg ggcctctatt 420
 ctcgacccat caactccgt cctttgatag gagtttacag tctatacctt tcctgtgctt 480

ttatctcctt catttttttt cccttactta caacgttact tggttctttt tacagctatc 540
 tgctcggtac ccactcctgt atcttttcct gctacttcat aatgggtattc aattatcact 600
 cttgtcgtgt gctacgtctc gatgaatacc gtgactcttt aatgtatgct ccttttccac 660
 aatagcgtct catc 674

<210> 1957
 <211> 240
 <212> DNA
 <213> Glycine max

<400> 1957

cgatgacaat catgaaactg gccaaataca ggctaaaggc ccatttggat aatgacaaag 60
 cccccgagtg gagaaagatg aaggcccaag tggagaacga tgaacgcca taggcagaga 120
 cactatcaag actatcaatt gttgctaaag gcccaaacta aattgaaagc ccaagataaa 180
 taagctctta gtcatcaact atttttatcg caattttgac ccaaactgtt tagaaggccc 240

<210> 1958
 <211> 240
 <212> DNA
 <213> Glycine max

<400> 1958

agcttctgag agtgccttat tgtgtgctgt ttttttttag gcaaattccc ttagcaatct 60
 cccaaattaa ggacttatca taacttgaaa cccttatgct ctcttagaac cctaaaacaa 120
 ggtcaaggat atcaaaatta ggatcagggg cttattcaaa caaatcatta attacttttg 180
 gctcaacagg gctgcaagga aaaaaactca cacacgggaa ctattctggc tcaccccccc 240

<210> 1959
 <211> 605
 <212> DNA
 <213> Glycine max

<400> 1959

taagcttgca aactagcttg tttaaataat aataataata ataagaataa ttattattat 60
 ctataccatt tttatggcat tatgaatgac agtatgaagt agcataatgt gcttagagag 120
 ttcacttgca ttggaaaatt ttcaaaaaga aaaaaactta agttaaaggg ataatgcaac 180

cagattaata cttccaaaga aaaaaatggt ttgtaaaaac attttcagac aatttaaata 240
 tttttatttg actatattag tataaatcat ctctaatacca tatattttta atattatggt 300
 cttttttttt cattttcttt tgatatactt tgtgttttaa taacttgaat tcaatatgat 360
 tttgtttatc aattattttt ggatttgtgc attacttata cgaaatttta taagtttctt 420
 cttttgggta gtatgttagt atttcacgag gttttaaaat aattaattga ttaaagacgt 480
 ctttaagcag actcttaaata aggttcgtag gccgataagc cgagtcgagc ctttaaaaaa 540
 agctatgaca gataatgagt cgaactcaaa tcttacgtag ttaacttaag tcaaactcca 600
 atcta 605

<210> 1960
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 1960

agcttcgaaa tcgaaaacta agcggttgat gatcgacgaa caatgaagaa cgaacgaaga 60
 acagcggaga acgctcacag aattgatcac agaaacatca cgaaagcatt acagaagcat 120
 cttggccttg attttcttct tcttgatcct tcttttctact aattttaagt gaaatatggt 180
 tgcccagggt gctgaccctt tcccttcagc ctcccacgcc tttttatagc caaacaggg 240
 aaggag 246

<210> 1961
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 1961

cagcccccta ggcacctttt tttcttttga atttgcagag gaaaattatc tccggaagaa 60
 aatcaagccg aggcgcttct gtaacgtttc cgtgagtaat tactcgaaga ttcttgaccg 120
 ttcttcaaga tccatcgttc gggcttcatt ttcttcagtc tacagcgggt aagtacctta 180
 aaccatgctt ttcaattcgt tgctatgtac ccgtgggtgct ccacattttg ttgcatgtat 240
 ttttagttat tgggtgtgat tactttttat accccctttt gatgtgctta agtcatttat 300
 ttaagtcatt tctcgcttaa tct 323

<210> 1962
 <211> 247
 <212> DNA
 <213> Glycine max

<400> 1962

agcttgtaga atggccagac atgatacatg tcatggtttg gtttggttca agggtaaaag 60
 ggatgccccca cattatttcc atgacacaaa tgcaaaaatg aagatttga aactttatgc 120
 aaaactgggc atgcatgcac ctatgtggac actcaagtg caaattttta tggtcatgtg 180
 aagctagggt ttacgattca ttcctctat tttagtcaac ccaatgttc caacaaatgc 240
 tcttttt 247

<210> 1963
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1963

tgctcgtggg gcttctatgg aggctggatc tttgagcttc aatgttggtc tttaatggng 60
 attttccacc atggagatgc agcggaagac aaaggagaag aggtgagagg aggtgccatc 120
 cactatggaa taagccatgg aagaaagagt ttcaccacca agatgagcct tggataagaa 180
 gcttgagag gatgcttcaa tgaaggaaaa gaaagagga gagaaagaga gaggggggag 240
 cacaaaattg aaggaagaaa aaggagagaga tagtgaactt tgagttatgt ctacaagac 300
 tcccattcat caaagttaca acaagtgtta cacatgcttc tatttataga ctatgtagct 360
 ttcttgagaa gctttcttga gaaaactttc ttgagaagtt tttttgaaa aacttcttga 420
 aaagct 426

<210> 1964
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 1964

agcttcatta agaggcttcc tccagaagct tcctcgtggc ttctttgcga agctttctca 60

agtggattct ttgagaagtt agatccttat ctatccacac ccttctatta actaaattaa 120
 cttccttaaa aataattacg gatgaaaata acgcaacaaa taatcaaaca tcaaacataa 180
 ttacgaataa tatatatata tatatatata tatatatatc aggggtgttac aatcatagct 240
 catacgacac aggaaataga gtaactgtgg ccaagtgtac tttgtactag ggggctgtca 300
 cctggtaggg aacacctttg ggctcccagg ctgatcacct atgggag 347

<210> 1965
 <211> 454
 <212> DNA
 <213> Glycine max
 <400> 1965

tgagatgagg aagtgttgaa gggtgaaact tcttgctttt attgttgacc acagagtggg 60
 acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcaggtggg gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag tgagaacctg 180
 tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaaa caagaccaca 240
 aagcaaggag gcttgtgggtg gctggccagc tgtgaatttt gtgtaatatg tggattgtgg 300
 cctctggtaa tcgattacta aagggtgggtg atcgattaca aggcttaaaa ttgaggacag 360
 gaggctaaga tggctctctg taatcgatta ccaaaggggg taatcgatta ccaagcttga 420
 aaacgaagtc atggaactta gggagcctct gggt 454

<210> 1966
 <211> 573
 <212> DNA
 <213> Glycine max
 <400> 1966

agcttccaag aatcaagatc aagattcaag atttaatat catgaatcaa gagaacactt 60
 aatcaagata agtatgaaaa agttttttca aataactaagt agcacatgga tttttctcaa 120
 aatctgttta ccaaagagtt tttactctct ggtaatcgat taccagatta ttgtaatcga 180
 ttactagtag cgaaaatggg ttttaaaaaa cttttaactg aatttacaat gttccaattg 240
 atttcaaaat gttgtaatcg attacaatgt tttggtaatc gattaccagt gtgcttgaac 300
 gttgaaattc aaattcaaat gtgaagagtc acattctttc acaaaaaagc tttgtgtaat 360

cgattaccag tgaaaagtttt tgaacaaatc aaaagatgta acttttttaa tagtttttga 420
 ctctttcaaa ttggctttta gtttttctaa aagtcataac tcttctaag gttctcttga 480
 ccagacatga agagtctata aaaacaacgc tttgttttgc attcttacag ctattcaatc 540
 caatcaatct tatacaatcc tttacaagcc ctg 573

<210> 1967
 <211> 419
 <212> DNA
 <213> Glycine max
 <400> 1967

tgcctgaaac tatatgagat ccctttgtcg ttgccttcca actaggggta agcttaagga 60
 gaaccaatc tcctatctgg tagttcactt cagcagctt cccatcagct tggcttttca 120
 tagcagcttg ttccttagaa gcttatttcg aatagcttgg aaagtgttat ccctatcagt 180
 taacatctct tcaacggcct caatgttcga agaccctgta atatattcag gaaagttaaa 240
 gggttttcgg ccaaagggtga caccatactg attgggtcca gttcccgcag tccatgaagt 300
 attatgggac cattcgaccc acgggaggag ctatcccccc atgcttggcc cacgatggat 360
 gaaggctcgc aaatattggt caattatgca attcaaaacc cttgtctgtc catcaattt 419

<210> 1968
 <211> 69
 <212> DNA
 <213> Glycine max
 <400> 1968

gagacgagcc gcagcatgca agattgcact aaatttacat tgatgggtgt atttatgtca 60
 cgcaccccc 69

<210> 1969
 <211> 305
 <212> DNA
 <213> Glycine max
 <400> 1969

ctttgtgca aaattccttt ttgttggtgt ttttttggtt tgtgctaaag gtggtcttcg 60
 tcattggaag tgccgtagac aggctttgtg gttgatttag ggatggcctt tgtggataat 120

<211> 493
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1972

agcttgcatt tggaattgcg aaagccccac tccatcatta tgattagtag ctgacatctc 60
 aaacaaacaa atcaaacgta acaagacaat tatagttgct gtttgaatac ctcaccact 120
 caagtgtatc acacaattat ggcttttctc taatgaaaca ctcttgccctt ttaccactct 180
 aattcccctt gagttcttag gcaattcaag agattatggc cacaacaaag aacaattcac 240
 caatatgtgt aaggtaaggc tagacaagga aaagggttaac caagaaaaag gctaacaatg 300
 tttttaggca caaatgaagg aaataaaatt cagaatttag gaattcaagt aacaatcctt 360
 catgcaacca atatattacc ttaaagagat ttttttttta aaagttcttc aagcatgaac 420
 cattcagccc aatttttttt ttttttttta attntgctta tacgaaattc tgcttctttt 480
 ttttttttat aac 493

<210> 1973
 <211> 548
 <212> DNA
 <213> Glycine max

<400> 1973

agcttgtgca tccaataccc tgatgaggat gtcccatttg ttcttaaaac tagacgaatc 60
 catttgcttc caaagtttca tggccttgca ggtgaagacc tgcacaaaca tctgaaagaa 120
 ttccatattg tctgctacac catgaaaccc ccagatgtcc aggaggatca catatttatg 180
 aaggccttcc ctcatctttt agagggagtg gcgaaggact ggctttatta ccttgctcca 240
 cgggtccatca cgagttggga tgacctcaag agagtattct tagaaaaaaa atttccttac 300
 ttccaggacc acgggtcatca gaaaggatat ttcaggcatt agacaactca gtggagagag 360
 cttgtatgaa tactgggaga gatttaagaa actatgtgcc agttgccttc accactagat 420
 ttctgagcag cttctcctcc aatattttta tgaaggactc aataacatgg agaggagtat 480
 gatagatgct tgccgtgggtg gagctcttgg agacatgacc cctgctgaaa ccagaaattt 540
 aattgaga 548

<210> 1974
 <211> 546
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1974

agctcaatca atatTTTTgt ctccactgtt ctttccaaat tcagccaacc aaacattgtt 60
 ctatatTTTtg tttgatattt caaaggggta acttttctat ttattaaata taaaaaatcc 120
 ttttaaatta atttagtgtt tatcataaaa aaaatactag atactttatt taactcagtc 180
 tatTTtgacc tagtctaata tatagTTTTa gaaactctat tttttcagta aaaatatcta 240
 tgcttaaaat ggTTTTtgag aactctctcc cacatctttt ctctttgcct tttgtctagt 300
 aacaatgtca catctcatgt taatTTTgtt tgtaatcaaa taatttctta aattggatat 360
 gaatcatagt tcatgattga tcaattcaag ataggtcata gttcatattt aattgtgatt 420
 atggatagta aggacaagaa acacaacctt aagagtccta taagtttagca ttctttgaat 480
 tgggaagagt accatttctt tctctcanatt aaatatattt aataccaaaa ggtgacccaaa 540
 cattta 546

<210> 1975
 <211> 230
 <212> DNA
 <213> Glycine max

 <400> 1975

tccattattc aaaagttgcc tgtgcttctt caaccctggg ctgttaatgg taatttagtc 60
 cccctcggac aaagaaaact gatgtgtaat gatgactgtg ctaagttaga gcggaaaagg 120
 gttcttcgag atgctTTTga gattaccgct ccaaatctgg attcactcca ttttggtgag 180
 aattcggttg cttctgaatt gctggctgac atgttgagac gtgattctaa 230

<210> 1976
 <211> 311
 <212> DNA
 <213> Glycine max

 <400> 1976

agcttgaaat gaggaagtgt ggaaggggtga gacttcctac ttttattcgt tgaccacaga 60

<211> 207
 <212> DNA
 <213> Glycine max

<400> 1981

tcgctgaatc actattctgg taggaaagat agacacttta ttatcctgac ataccagtg 60
 tggatgacac atttactcct gtgtctaaaa catttagaat ctgcacaaaa taaagctgaa 120
 cacttcatta ctcatccct agttaaatgt tactccattc ggatgtatca tcaattcaaa 180
 gaaaatgact tcgctcacia atgaatt 207

<210> 1982
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 1982

agcttttgat tgaaaggaag tcttcaaaac ttgcccacia cttcatcaaa atgtgtaaat 60
 ggtttggtat ggcaggattc taaagctttc aatggcatca aatcaaaaga ctagacatca 120
 atgaaggcga aagggtcagc gtttattgga tctatttctc cttgaaaatg ttcggcattc 180
 ttagttggag aattttcaac gacaactata ataaaaatta aaataaaatt agattcgata 240
 ttcgaacaaa gaataattga ggcgatagtt tatttac 277

<210> 1983
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 1983

tcttctatat atagccttca tatttaagta tccattgtct ctctatagtt ggattcttca 60
 ctatattctt cgtttgatgt cttgagtcg tttgagcatt taatgcacgt ctcttttcat 120
 gcaaagacca tgatgatagg ataacatggt ttatacttaa atgaggaagt cacttctttc 180
 atcatagtag gtctacaaca atagagagcg ccctttgatg aggatcaaca tctccaaagt 240
 gtgggtttca tttattcttt ataggactat gatagatcct aggagaatgg tgggtggaga 300
 gatcgtctaa agcacatctt gatgttacia caatgggtgg aggagagatc accacttgag 360
 tcttagcaac agtccccctg ttgctgactc catcttgtct tgttgttctt aaaaaaacct 420

<210> 1984
 <211> 326
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1984

agcttatatt cacaaaggac cctagngttg ggtgccttag tctctttttt cgggctggga 60
 gttgtagatt ggttgtgatt gcttgtaagg attcttgatg catagtggaa atctaattca 120
 ggttgtggat tagataagtt acttagcttc tctagaaata gagagtgaac tagtataaaa 180
 gattgtgtct ttcttctctt gtctaactt ttttctctca tttaagggc aatcaactca 240
 ttcaagttta atcaagtctt ttgagtatta aacaagtttt tcacaaagat tcaagtttta 300
 tgattgtgaa agaaaggatg ttactg 326

<210> 1985
 <211> 528
 <212> DNA
 <213> Glycine max
 <400> 1985

actatgaaac taagctttaa caaatgtctt cacaaataat catcacatag cttaaacta 60
 gcaagactac ccatcatatc tccccaaacc ccataccac gaaaatcaaa ggagaaagaa 120
 gtccaccaa acctgaattt ttgaagtccc actcgtagcc acgcacttca cgaccccgaa 180
 aatgccctcc ttttgcgatt tggagcagaa atgatggcca aagggtgaag ctttgcttgg 240
 agcttcaatg gaaaatgaag aaaaagaaaa tggcaacgtg agggcgagag agggctgtct 300
 gaaaagtgtg gtggggctga gtgaagagag agaaaagctt tttggtttaa ataaaaagg 360
 gtttctcttt tttctattat tttatttatg caaatgccac atgtctccat ttgagtggag 420
 caagaaaggc ccaacttctc tttttgactg tgaccatac tcagtcacca aagtgaggaa 480
 aaatctgacc ctttgaaacg ctaaaatcct gcctcggttt gcgtgccg 528

<210> 1986
 <211> 461
 <212> DNA
 <213> Glycine max

<400> 1986

agcttagagc caattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgtc 60
 atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaatccaaa cgaccataac 120
 tttttactcg gatgtctgat tgagtcccgg aatataacga gagctcaaaa attgaatgtt 180
 gaagctttga gccaatcaaa acgacaataa ctttttactc ggatgtctga ttgagactcg 240
 taatatatcg agacgctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300
 actttttact cggatgtctg attgaggccc gtcatatatc gagacgctcg aaattgaatg 360
 ttgaagctct gagccaattc aaacgaccat aactttttac tcggatgtct gattgagccc 420
 cgcatatatc gagacgctcg aacatgaatg ttgaacctct g 461

<210> 1987

<211> 430

<212> DNA

<213> Glycine max

<400> 1987

taaacattca acttcgagcg tctcgatata ttacgagtct caatcaatca tccgagaaaa 60
 aagttattgt cgtttgaatt tgctcagagg ttcaacattc aattttgagc gtctcgatat 120
 atgacgggac tcaatcagac atccgagtag aaagttattg tcgtttgaat tagctcagag 180
 cttcaacatt caatttcgag cgtctcgata tgtgacggga ctgaatcaga catccgagta 240
 caaagttatt gtcgtttgaa tttgctcaaa ggttcaacat tcaatttcga gcgtctcgat 300
 atattacggg actcaatcag acatccgagt aaaaagttat tgcgtttga attggctcat 360
 agcttcaaca ttcaatttcg agcgtctcga tatatgacgg gactcaatca tacatccgag 420
 tgaaaaggta 430

<210> 1988

<211> 441

<212> DNA

<213> Glycine max

<400> 1988

agcttttaga aacagggtcag cattcaactct ctctatttct ttttaaaata ttatgtgcaa 60
 tattattgtt cttgtatatc tcaaaattta taaagattgg ctcttgcttc tttcctgttt 120

aatacaacaa tgtaagagg ttaaactctt tctgtattat atattagagg aaattgcact 180
 agcatccctt gagattttcc taaatgatac aatccagtcc tctagattct tttgacttgc 240
 tgaatacagt gagttgtatt ttacattttt ttagagtact gaatacagtg agttttatga 300
 ctaatagatt tatatcttaa atttgtagta tatgaaattt gaaagtataa ttaaatttgg 360
 atggtgttga aaaaatatatt tactttgttc tgcattggaa aaacatgtat tgaaacatta 420
 ttacaaaaca ttgtatcatc t 441

<210> 1989
 <211> 553
 <212> DNA
 <213> Glycine max

<400> 1989

tgcatccatg tgcactagtt attgtattat tgaagagaaa gaataaattt gaggtagaga 60
 ctacagagtg tagcatacat gtccacttgc tgtttctgac agttggcggg tccataaatt 120
 tgaaagattc aatgaaccat ctttcagaga cattgctatt ccattgttg cagctgagtg 180
 tgatgataga ttgctggaat atgaagcaca agaaacatta aaaggattgc taaaacaggc 240
 aaaagagtat gttcaatttg atttactgaa taaaaatta ccaccgagt tgtttgcacc 300
 ccgattagtg cacgcagacc agccgaggcc acaacctcta ctgacgaaac ttctgaaagt 360
 tgatgcctaa acacagcagt agcagctcca ccacctcat ctccattcac tgctaaatta 420
 cctccaatcg taacagcatt gtgctttgat aactgagaac tgaattcact tgtcatagcc 480
 attctgatac tcataaacgt aataaaatac acaacaatc agacaaaaa caaagaagtg 540
 cttaacacat taa 553

<210> 1990
 <211> 485
 <212> DNA
 <213> Glycine max

<400> 1990

agcttcatcc tcagatcctt cttgttggac taggctcaat ttagacaacc ctctaggtt 60
 tagacaaact taagctaagc ttcacacctc aatccctctt gttggactag acttagcttg 120
 tcatacccta atttcgtctg gggactattg tttgatggca tgaaaccttt ggttgaccgc 180

ttcgagttac ttggcaccct ttgttgaca atacgtgaag ttccgagaca tgccggaaat 240
 caacaggaag cattgttatg caatccgtga aattccgtaa catgtcggaa atcaaaagga 300
 agtattgtta tgcaatccgt gagtttccgt aacattccaa aagctaaaaa aggagtaatt 360
 acatgatccg taaggttccg taaccttacg gaaagaaaac aagtatcgtt atgaaattcg 420
 tacagtttcg taacattacg gaaaatgaat caccacaaga agcaaagggg ggtgtattta 480
 ataaa 485

<210> 1991
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 1991

ttctttagc atgcatgggt ttgacgtatt cttttgcttg aattcactag atcccttccc 60
 gcctagtatt tctcactggt aggtaccgg ggaaactcgg tggagccgct gctggttctt 120
 tgtctctttg gcccttaatt ggcgccctag tgcacccttt cttctcttta ttcattccac 180
 attctacttt ctgtaaacc cttactctgt gtcttgcgct tttcagcctg aattccattc 240
 ccgaaatctt ctatgatatg aaactacata catcaattaa gaaaatagtg taggaatcta 300
 agataagata gagtcctact 320

<210> 1992
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 1992

agcttctata gaaggttcat tcctaatttc tctacaattg catcacctct caatgagctg 60
 gtgaagaaga atgtggcatt taccttgggt gataaacaag atcaagcctt tgctttgctc 120
 aaagaaaagc ttactaaggc acctgttcta gctcttcctg acttttctaa aacttttgag 180
 ctagaatgtg atgcctctag agtgggagtt ggagttgtat tgttacaagg tgggcaccct 240
 attgcttatt ttagtgaaaa acttcatagt gcccccttc actaccacac ctatgataaa 300
 gagctttatg ccttaataag agcccccaa acttaggaat attaccttgt ttccaag 357

<210> 1993
 <211> 551
 <212> DNA
 <213> Glycine max

<400> 1993

tgtatagttc cccaatttat ggttattttg tattgatttt tgtataataa atcttgtttt 60
 atgggttaatg ttgtctctag aatattttcca ttggatttaa tgatgaaatc tgtgcatttt 120
 caggtgaaaa agaggctaag ttttgaattg caaaatgtag tagtggggct aagctcagca 180
 gttgggctaa agcgcatatc cattgctaag tgcagcttca gcgcgcttag tgcaaaagat 240
 aatctggcag agtatcagtg ttcggttttc ggcaagtgc cgggatcgca caagtagtat 300
 aaaacggtaa gaaccgagta tcgaacactc ggggaacttg ttgtatttgg taatctattt 360
 cagcaaatag gcgtctattg tgtaaaaata agtgtgaata tgaacaagtg tataaactat 420
 ctgtgcaaaa agaatgaaaa tcacgcgaga gaaatgatgt gtaaaaacaa gtagagtaca 480
 cgttgggtctt cctaataagg gctgatgcg aaaatgatat tctctatcta acaatgctca 540
 tgtgctctta t 551

<210> 1994
 <211> 603
 <212> DNA
 <213> Glycine max

<400> 1994

agcttctcaa ggaggtgagc ttagttatga gagtgggtgt gtgtagctaa gctctagctt 60
 ctcaaggaag ctctccaca tactctctc ccacgcccct caccctccag ccggccctca 120
 cctatctctc tccaccccca ctccccctc tccctcccct ccgacccccc tccctccttg 180
 cctgcccccc tccccctacc ctcccccaact ttctcccccc tccccgcccc tccccaccc 240
 ccccgcccc cccccccccc ccccgctctc cccctcccc ccttcccccc catctcccc 300
 cccctccct tctctccctc cccccccccc tctccccac ctcccccatc cttacctcc 360
 cccctccct ccatccccc cccctctacc ctccctgctt cccccccccc cccctcat 420
 cctccactcc ctccccccac tccccccct tccccctc ctcccccagc ccgctctct 480
 tctcccccc cccccctc cccaactccc cccccgccc ctccccctct tccccccccc 540
 ccgccccctc ccttcccccc tctctcccc accctcccc cacacccccc cccccctc 600

<210> 1995
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 1995

tctaaacttt atacaagaat gaagctctga taccacttgt tggataagtg gcctcagata 60
 tcttacgaaa ggggggttgaa ttaagatatc acaaactatt tccccaatta aaaatttatt 120
 ttactttcta ttcaagttat aaattccctt aaaaatgaac ttcttaaata ttgattcaaa 180
 taaagcaatt tgaatatgaa tataaaacaa taataaataa aggagtttaa gggaagagag 240
 attgcaaact cagacttata ctggttcggc cactcccttg tgcttacgtt cagtccccaa 300
 gcaaccgcgt tgagagttcc actatcttgc aaaagcctat tacaagatct gaaccacaca 360
 aggacaaccc ttcctttgtg tttagatttc tttacaacaa 400

<210> 1996
 <211> 111
 <212> DNA
 <213> Glycine max

<400> 1996

agcttgcata actgaaacca tcttttgggg tattttattg gtaaaaacag cagcaccttc 60
 aacagaattc attgaataac cacatggctt aaaagtaaag tcacaaatct c 111

<210> 1997
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 1997

tgccagaata atggggttgga tacagattat tctgggatgg tttgtcatct tggttaagcct 60
 tttgagtctc actagattct actctgcagg ctttttcgtc cacaatgaag gcatatgcc 120
 acacttctac aatgtgaggg atgtttctga tggttttgat gtcaaatac tctctgatag 180
 agttggagaa gtgatagaca agttggaaac tttgcatgcc aagcttgagt caaaagtgc 240
 agaaatggag aaaaacaaag gcacctagtt ggaccaagaa gtttttaaag gatcaaata 300

tttggccatt tcatagtgt aatgttgctc taaggcgggt tcgggttcg aaggttgatg 360
aatggatgaa gttcgcagtg aaagaggatc atgtgatcaa tttttttcat cactga 416

<210> 1998
<211> 948
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1998

accttttttc tttcacacgc caccaccncg ttcacggcgc tcgtgaagaa gaacggggca 60
ttctctcccg cggcgggtcaa ccaaccacac aagccctttg cttctgctca aaggaaaagc 120
cttacttata ggcccttgcg cctagctctt ctccgcactt ttctataaac accttccacg 180
ccttaaagcg cgacccccct cttaaaggcgg actctcgaga cccgcctccc gctcccacgc 240
cgcgcccccc ctcttggcct atttttaccc gcacgaaact ccgcttgtgg ccgcccctcg 300
tctctcccc tccccactct aaacaacaac ctctcatccc gcctccaata agccacgccc 360
cctcgctcat ccactagctc cccctctgtg tctctatggc ccttgccctt tctttcgacg 420
tctctatccc ctctacctcc cgccgcacac gatccagctc ccttccttct ctcaacctaa 480
tctctcttac cgtcccttcg tccctcggtt cctcttcac caccctctc tctctccgcc 540
acaccgacct ctcttcccca ctccccctc gggcgccac gctccattgc tttccgcacc 600
accgctgccc accgatcact ctcccgcccc tccccactta ctttctcccc gccaatcacc 660
cccgctactc cctctctctc tgcccacttc tctctctctg cacgtacca tccactcgtc 720
attgctccac ctatccgacg ctctacctc ctactctcta tcacctatct tacctntnct 780
tgactacaac gctacctgc gcgtctctgc ctctacgcgc accaccagtt ccttcctatc 840
tccgctctac tctgttcaac agccccgttc ttattgcgac tcnccatctt cgtccctacc 900
tccgacgctc acgcttgccg gtcgctnca gctcgtctca ctgcccgn 948

<210> 1999
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1999

tgtcctgaaa ctggantaag aagaaaaaaa tacattttga gaattatagc ttagtcagga 60
 ggttccttgg cctcgaatca aggaaaaaacg cgtctctctc cgtactctca cctttttccc 120
 tctttcttct ttaaccaacg cataacaaca tgggggtggag tatccctaac aggccgtaac 180
 accctaatgc attgtcggta gtgtcatctc gatgagagtg atagtgtcaa gttgtccatt 240
 gtgcgacaat ctatcgacta catggactcc cagcctacat tcacaaagta ttttcaaaat 300
 ggtaccatat gcatgcaaat ccataagtta aatgtgaatc atcttgcattg tgtgtctatg 360
 tgtatgagac atttgaaggg ga 382

<210> 2000
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 2000
 agctttcccg ccatccccaa aataattttc atactattat ttcataaaaa tccctaacgc 60
 gtgtgttccct ttccccacca caaatgcgaa cgaagaaaac aatgtgtaca tggcagattc 120
 tctccaactc cccaaataat ttccactggc aacgcattac caccaccacc acccaccaac 180
 acgcttcacc tcctctcttt cccctccctt ccatgcaaga tcttcttcgc caggggtccg 240
 attcctcaat ctctttttct atttccaaaa acattctttt ccttttctctc tttttttatt 300
 ttaccaattc tttttctgc aggcactcca actcttcccc tccaagacga cgccggtgct 360
 ccaggtcgag ctaatgcttt gcccacaaacg aattcataat cttaattaac tatttttaaa 420
 cctccgcatt c 431

<210> 2001
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 2001
 aatactaagc tcgcttctac atttatcacc tttatagatg attgttcgtg atatatgaat 60
 atttattcgc ttcataacaa aaataaagca ttggatccct tcaaagtctt taaggctgaa 120
 gttgagaacc aatgtggtaa gaaaataaaa atagtgagat tagatagagg tggagaatat 180
 tatggcaa atactgagaa tggacaagca cctggctcctt ttgcaaagtt tcttcaagaa 240

catacgattg ttgcccggtg cactatgcct ggtttctcaa atcactatgg tgtggctaaa 300
 agaacgaacc gaacattatt ggacacggta cggagtatgc ttagcaactc tgatcttcct 360
 aaatacttgt gggctgaagc actaaag 387

<210> 2002
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 2002

cgcatgcatg ctattgcgct ccaatttgaa gtgttttctt tttcatgaca gacaaaccca 60
 aattgaagtt gcgttcggaa attatccttg cccatcgccc attttattga tctcttgcat 120
 cctcctaaaa cattaatcat attatagtta attattaaga tacagaagta cttataatat 180
 tatattatga ggtgccttgc cactgataga tacatttgtg taagattaat gaatcgaagc 240
 ctccacacaa ttacagttac ataaaatatt cattaaccct agtatgtgat aatcacatac 300
 ctaatgcatt gagtttagtc tggtttgaat attactactg tgtttcctat atatTTTT 358

<210> 2003
 <211> 953
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2003

accacgaacg cgagacgggc gtgtgtgcca ctngancgta cgttcacact cncagcacat 60
 anacngagtg ctntncagcg gngcgtcagc attaaagtgt agcacacagg aancacgcnc 120
 nctctagcag ccnncccccc cnnccgagag atgaaaccnc tgtaacagac gccgggcatc 180
 tataaaagag agctggcggg aagccagctt tgggtaagga gcattaaaag gagattggta 240
 tggggaaaaa aaaggagggg gcttaaagta tacacacaga ggcatatgca caagaagctg 300
 ccagggttaag agtaaaaaca ggcattgatg ctgaggggtga cggcccctat gccccctcag 360
 aaatacaata tgtgaagcag gccggctata cattcgtagc atggcccaca caacttggga 420
 aagctgtatt aaatgagggg acatggtaga tttgacatgc gcaaaggaaa acaatcatag 480
 aatacaggac aaatactcgc ccacttttat taaacaggta ggaaccacaa agtaattcac 540

acaacgagga tgcacatgtg ccgaagccgg ctaatgggga agcagatgaa ccggtgcggg 600
 gaacgataaa gaacagttcg gagaattaag aaaaccacg ggagactacg tttgatggga 660
 ggtttcttgg aatggagacg gctcacatcg aaatccataa aaatcacgag ggagggaaaa 720
 aaagcgggga aaaaagtctg aacataactg gcacacaaca acgcgaaagg aagggaacac 780
 cttaattaat tagccctcat taatggagta aacggagcaa taaaagcgt taaatacagg 840
 gaaagggcaa agggcgaacg gagccacaaa tntccacggg ggtcaggaag ccacgcgtg 900
 gggcacaag gaggatcggc cgaagaggaa aaaacaccac cggcgacaaa act 953

<210> 2004
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 2004

gcttcgggag ttgtatttac gcacggggaa ggtattagca ttctctctcg tccatcacaa 60
 gagacgacag cctttaatca aatgtgcaaa tatgacttta attcatggta tcttcccttt 120
 ctgcgttctt atggttttgt atgctttttt atatttttat ctttttgagg tcgacaaggg 180
 ggtttccctt tgctcctacg tattcctcaa ttgtgataac gaaatcatac ctacgttagt 240
 ctttgtgaat aaagtgtttg gttaagtgtg ctctattcct ttttgcgaga tatgtcttta 300
 ttgaatgaaa ggtcatttta a 321

<210> 2005
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2005

agctttgttc actgcagttt caaatttctg atttattact cttctaataca tatccccaat 60
 catataacaa tatttaattg tttgttggtta agcacattac tatttatttt ctttaaattt 120
 atgaagctac aaagtataag acttttatga tgatatgtta aaaataaatt ctgagtcact 180
 ttatgaaaac aaaaacaatg gtatcaattg aataataact acaattaatg actctaattt 240
 gttaggacta agctcagaca ttttctttt ttcattgtagg tggtcaagct gcaaccagat 300
 attattacaa atgtggggat agntctattc cagccatgac ccaagagcat ttctttttaga 360

cttttcctaaa acctagtgcc aaataattat ccaactccaa t

401

<210> 2006
<211> 426
<212> DNA
<213> Glycine max

<400> 2006

tgatgaagag tgcttgacag cttttcagac cttgaatacc agtctcgtgt ctgctcccat 60
aatagtgaca cctgactgga gtaaagagtt tgagctcatg tgtgatgtcg gtgactatgc 120
aatgggtgca attcttggac aacagcaaaa caaggtattc catgccattt attatgccag 180
caaggtccta aatgatgcac aactgaatta tgccaccatt gagaaagaaa tgctcatcat 240
tgtttatgcc ttagagaagt tcggatccct atttgttggg ctccaaagtc atcatcttta 300
ctgatcatgc agctattaag tatcttctaa cgaagaccga tttggagcca agggtaatca 360
catgggttct tctgattcaa gagtttgata tagcgattaa agacaaatag ggctaagagt 420
aaagtc 426

<210> 2007
<211> 301
<212> DNA
<213> Glycine max

<400> 2007

agctttttaga gatggattgt atgtatttga ctaccttttg tctatctcac cgtgttttgt 60
gacaccaagt ttgtaaatgt gttcgtaacg attcttcttt tatttcgtgc ataaaaaata 120
ttttaagtca tgtaacaatg tgaactctga ttagctaatt tacattttta aataaaatgt 180
cttttgtttg tgtacacatt gtctcggcaa atctctcaaa ttgacttttc taacagtacg 240
taacaccatg tatgctaaca tgggtactgga tttggaggca atgtgaacaa aaacaagagt 300
a 301

<210> 2008
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 2008

tatagaaact cagctttaca agttttcctt gtctttcaga tactgagtca ttggcatgct 60
ttcaagaaac aaatggttga gttggtcttt agtatcaaac aatccatatt taatatactc 120
agaagcatgt ttaccaagaa catcttgcaa cttctcaatg aagttcccat atgctggcaa 180
caagatgtgt tggagtgaca ttattatctt ctcacttagc tgcttatcaa aggcacgcca 240
tttagaattg agtgctacat atatccttga agtgcatggt gaactaattg aggctgcctt 300
tcagtgactc tgcgttcgca ttatgctcca ctagctngtt gtctctagct ccagaaagtt 360
agcgccatat tccaagaact actttgatta 390

<210> 2009

<211> 353

<212> DNA

<213> Glycine max

<400> 2009

gcttaaggag accactttga actttttcac gaacaatatg gcaatctaag tcaatgtggt 60
tagtacgctc gtgaaaaact tgggttaaag agatctggat agcgattgat tgtcacacca 120
aaaattgggg ggtgaacctt ccaaacacgt aaatcttgaa ggagatatgt gagccattgg 180
agctcgcaag tagtggaagc caaggctcga tactcagctt cggaggagct gcgagacaga 240
gtgggctggt tctttgagca ccaagaaata atggaattgt cgagatagac ggagaagccg 300
atgatggaac gtcgagtgtc atgacaaccg gcccaatcag aatcactgaa tgc 353

<210> 2010

<211> 609

<212> DNA

<213> Glycine max

<400> 2010

catcccatgc ttctttggcc gtcgttgctt tggatatctt ctcaaagtga tcttcatcca 60
ccgattgata aatgagaaag agagctttct tgtctctctt tcttgactcc ttcaacgtct 120
cctttacacc ttggcttagc gaggcttcat cttgttcctc gaagccattc tctatgatat 180
cccacacatc ttgagctcct agtagcgcct tcactttgat actccaatta tcatagttgt 240
tctttgtgag catcggcatt tggaaaggaa aacctccatt cgccatcttt tgaggatctt 300

gaagctctga taccactttg ttggaaataa ggctttttat gtttaggaaa agtggttagg 360
aatattggag actttgaata ggaaggagaa ttctctatgg aggagagaac tttgtatttt 420
tgcttgatac aaatgtgtag gattacatct ctatttatac tactctaagg agaactctag 480
acacactaat tctagagagt tctcaactct agagatccaa agaggattct agagaatatt 540
aaaaccataa gaaatatcta gacacttcaa aactacaaa aattctctag aacatgaccc 600
ataattact 609

<210> 2011
<211> 348
<212> DNA
<213> Glycine max

<400> 2011

agcttgcaca ctctattata ttggtctacc aagtgttata acacaatagt gaagcgttat 60
tattgcacaa cagtgaagtg tacttatttt cagtctaggc cacaatcttc accccattct 120
ccctgctcaa ccactgaatc aaaatttctc cagccacacc aaaatagaga tgcagaaagg 180
aggcaaaacta atactaccaa taacccccaa gttccacgtt ttaggtggga attatactat 240
taccaaaacg ggttctacaa cctcttacag tagcataact cttgcaaaca ctctaaatag 300
taaaaaaaaa aacttcaaca ttacagaact cacttccatg tgaaaaac 348

<210> 2012
<211> 460
<212> DNA
<213> Glycine max

<400> 2012

tatggatcat tatgtggatc aactcattgc atatgcatat ctctaggtag acaaaaaatat 60
ttttaaacct ttcccatta ttgaccggt agacactaca catacacatg atttgggtccc 120
caagtaagtt actaggggtt tagaagccag cagcagtagg caaaaatgtc gagttccatg 180
atgacgtctc caaggaggct ctattgctct ctgcttcgaa cccccaatgc atatcgccac 240
ttctccaccg atcacctttt cgactctgga cgaggccgac tcagcacccg acccaccgcg 300
acccgacgcc gttcaagaag aagaaaagtt cgtcatcgat cgccccctcg agaatggcct 360
cgacgatggc atctacaggg tatcgtattt ctattcgaaa tccaatttac aattagcgat 420

tcattttccc attcaattgt gctgtgttgt gttaggctat

460

<210> 2013
<211> 988
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2013

acgacataac acattaccga gatgtggaca tacatatacct taccgtgtga acgataagag 60
ataaagagat cttataaaa ctctaaggan ntnnnntgtg atgatgcctg caaccgtgca 120
atagcgcact atncaatacc cagctatgag ggcgcgtcag ccaccaacac agcagaatat 180
agtattaatt gatgtgagca accaacacga gcgacggaac gcgatattaa cacaccgtac 240
taaactctac acgacgtaat acgaaaccac aaaaggaaca cataactctag gccagccaaa 300
cagaacgaca acctaataaa gaccattca aaaacgtcaa cagagggggc gggcacaatg 360
caacaagaca cggatagaga ctaacgacaa cacaacaacg aaatagggat tgcacacca 420
cacaacacag gagcctanaa agacataata taaacaaaat aaatgacagt gaggagacag 480
ttgaaacggg agcgatcaaa ttgccacca gacgattgcc accgcaaaca accgggggac 540
aattgaagga atgataacga actaagggaac ccatgataag aacgacacga atgcaaaaga 600
aggcaatggt gataaggaaa caaattaact cgaatgaaca catacaaagt gaaataataa 660
acaagtgata acgcatagac ggtcagataa cgactgggtt attatcaagg agaaatgacc 720
tacttgata cgaaacgacg tggaaccgaa cagaacagcg agatcaatga aaccaaacgg 780
aagcacataa caacgaaatt gaccgcacag aaatgcgaaa cggaccgtct gcgatacggc 840
cgtcattgac accgagcagt catcgcaaac gaaccacatc gtatgaagca aacacagaga 900
gatatgaact ttactacacg atcacgccac gcatagtga cgagacggag agtctcaact 960
cggaacacac aactcactac tacgagct 988

<210> 2014
<211> 370
<212> DNA
<213> Glycine max

<400> 2014

agcttgcttc cttttgattt cggagacgtc tcttgacatc atttattgtg caaccaagga 60

cgccaagttt tctcaaagcg gccaatccaa ggttgatat catcaaataa taatccccgg 120
 acgaaattag ggtatgacag gagccaccag aaccacctta gattgttttg tcttttttct 180
 cttccttctt tctactcct tctccttacc ttcttctctt tcttaccttc tttgtaacac 240
 cctgaaattt catcttaaata tatttcctac attgtgaaag actagatagt gtaagttcac 300
 tctatgtaaa tttactttgt gaatttatga atttaattta ttgtttggat aattctaata 360
 cttgaaattt 370

<210> 2015
 <211> 577
 <212> DNA
 <213> Glycine max

<400> 2015

tcttcagaaa cgtggcattt gtgtgcaata cacaatgctc gggtcaccac aacaaaatgg 60
 tgtatcagaa aggtgtaata gaacattaat ggatatgatt aggagtatgt taatcaattt 120
 gactttaata atacttttgt ggatgtatgc cttgaaaact gtcattgtatt tgttgaatag 180
 gattcctagt aaggcagttc caaagacacc tttgaactgt ggacaaatag gacacctaata 240
 atgaggtacc tgcattgtttg ggggttgcaa gcagaaataa ggatttataa tctgcaagaa 300
 agaaaattgg atgcaagaac aatcagtggc tatttcatta gttatccaga gaaatcaaag 360
 gggatatagt tttattgtcc taatcataat atgagaattg tcgaaactgg aaatgcaaga 420
 ttcattgaaa atggtgaaat cagtgggagt acagttccac gagaagtgga aattaaagaa 480
 gttagagtgc aggtcctttt tgcttgggccc tctaacagta aggtgattgc tcttttaatt 540
 ggtgttgcatt aattaatgaa gaggagcaac acattaa 577

<210> 2016
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2016

tggagacgat gcttcaatgg aggaaaagaa agagggagag ttagagagag gggggagcac 60
 aaaattgaag gaagaaaaag gtagagaagt tgaactttga gttgtgtctc ataagacttt 120

cattcatcan agttacaaca agtgttacac atgcttctat ttataaaca ggtagcttcc 180
 ttgagaagct tccttaagaa aacttccttg agaagcttct ttgagaaaac ttccttgaga 240
 tgctagagct tagctacaca caccatcta aaaactaagc tcacctcctt gagaagcttc 300
 cttgagaagc tagagcttag ctacacaccc atataaaaac taagctcacc tccttgacaa 360
 aatacatgaa aatacaaaat aaaaagtccc tactacaaaa actactcaaa atgccctgaa 420
 atacaacgct aaaaccctat actactagaa 450

<210> 2017
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 2017

gtacatatgt tctcaacacg agaacgtttg aggtatctaa taagcatgtc tgcaagttgg 60
 tcaccggagt tgacaaaagtc aatgatgatt tctcctgaga gcaccttttc tctcacaag 120
 tgacagtcaa tttctatttg gttagtctgc tcatggaaga tcggatttga tgcaacgtgg 180
 agagcaactt gattgtcgca tagtatcttg agtgtctcca aattttagtt ggtggagaaa 240
 ttgcctagcc atgtaacctt ggatgcaata gctgccatag catgacactt agcttcaaca 300
 ctggatatag caattgtttc tgcttcttac t 331

<210> 2018
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2018

tgctcanag aggtccagga aggacaaggc ggccgaagga actagttccg ctccggagta 60
 cgacagtcac cgctttatga gcgctgtaca ccagcagcgc ttcgaagcca tcaagggatg 120
 gtcgtttctc cgggagcgac gcgtccagct catggacgac gagtatactg attttcagga 180
 ggaaatatgg cgccggcggt gggcaccact ggttactcct atggccaagt ttgatccaga 240
 aatagtcctt gaattttatg ccaatgcttg gccaacagag gagggcgtgc gtgatatgag 300
 atcctngttt aggggtcagt ggatcccggt cgatgccgac gctatcatcc agtcctggg 360
 atatccgatg gtgttggaag agggccagga atgcgagtat ggccagagga ggaaccggtc 420

tgatgggttc gatgaggagg ccatcg

446

<210> 2019
<211> 136
<212> DNA
<213> Glycine max

<400> 2019

atacgctga atcaacatcc gtgtgaaaag ttatgaccat ttgaatgttt cgaaagcttc 60

ctttgttcaa tggcgagcat atagacataa tgagagcccc aatctgacca ccgtgtgaaa 120

agttatgacc atttga 136

<210> 2020
<211> 415
<212> DNA
<213> Glycine max

<400> 2020

tagcccaaga ggcgatggac cttttcaggt cttggagagg atcaataata atgcctatag 60

gttggacctc ccaagagagt atggagtcag caccactttt aatatttctg atttaattcc 120

ttttgcaggt ggagctgata tagaggagga ggaaccaata aatttgaggt caaatcctct 180

tcaaggggga ggggatgatg caatcctccc taggaaagga ccagttacca gagccatgag 240

caagaggctc caagaggatt gggctagagt tgattaagaa ggccttatgg ttctcatgaa 300

ccttagggta gatttttgag cccatgggcc aagggtgggt ccactcttct ttgtaaatag 360

tagaataggt tgttttcttc ttttgggcct tgtattctgg ccattctagt agtat 415

<210> 2021
<211> 205
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 2021

ctcacaaatg ccaagttacc tttcaaataa tggacattaa cccccctac agctgtctgt 60

tggggtgtcc gtggatccac tcagtgggag ttgttcctc tacacancca ccaaaagtga 120

aattcgtagt ggaagggcat ctggatcatg tatcangcga ggaagacatc ttggtgagct 180

gcccatectc tatgccttat gtgga

205

<210> 2022
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2022

ntaganactt gttntaaaga tgtaccctct tctggttgct tctcttcta agagggaatt 60
ggatccttgt atgactgact ctntgtcctt gccatctaca aattacaaca taagaaagat 120
atgcaatttc tatctcgtaa gcaaagaagg agcattgaaa aaaaaatcta gaggagtgga 180
agaatgacat attctgcata aaatgggtag gtctcaccat ggcaaaattg agccctgaaa 240
ctcattgaag cttctggaag tgcatttgcc atggagattt ggacccatgt agttgagata 300
gcctctggag gtcatttcac tttggcaa atgataacctca ttgtagctga atagatcttg 360
aaacaaaaga atatcttttg aagtccttgc gccttggaac gatgaatttt tgccatgatg 420
aanagttacc cgtagagaat tcttggtctc tat 453

<210> 2023
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2023

agcttgaac atataaactg aatcctagtt cctcttaagg acttagtcaa aatgtctgct 60
ggctgatcat tagaattgat gaactcagt gtaatctcct tggacaataa tttttctcga 120
atgaagtgc aatcaatctc tatgtgcttg gtcctctcat gaaagactgg atttgatcca 180
atgtggaggg ctgcctgatt gtcacaaaat aacttcattc gtgtaacttc acaaaacttc 240
aattcttgaa gaagttgctt aatccacata agttcacatg tgaccaaagt catagatcgg 300
tactcagcct ctgcgctgga tcgagcaaca acagtttggt tcttgctttt ccaagagata 360
agatttctc caatgaaaac acagtagcct gaagtagatn tcctatcaat aggacaacca 420
gccaatctg catacaatat ccagatac 448

<210> 2024

<211> 450
 <212> DNA
 <213> Glycine max

<400> 2024

tgcgcctttgc cttttcctaa actactgtag gaatattagg gtatggacga atgggttagg 60
 gtgttggggc acataaagtt gggatgcaaa tggtttagcgt ggcggtgttt gggttgggac 120
 gcaaagaaga ctgacggacg agaatgagta caacataaga aggggaaggg tttggggtgt 180
 cttgcgacga tgcaaaggac ggtaggggggt gggtttgggg tgtcttgcg cgatgcaaag 240
 gacggtaggg ggtgggttgg gagtggttag tctttggctc taaaaggga ttttttcat 300
 gcaggaagca aataggagg tgtgggaagt aaaatcctaa ttttatcgg attgacatat 360
 acaactaaaa ttgtttaagg acattgttat cactaccata attgctattg acactatgaa 420
 gtcttggcag tggccatttt aaccttttga 450

<210> 2025
 <211> 211
 <212> DNA
 <213> Glycine max

<400> 2025

catgtctgca gctgcagatt caccatttcc tataatctaa agttttatct aaatagctct 60
 gagtaagtat tctgacaaag ggtggagtct taattaaact tgttgaagga gatatgttat 120
 tgagagaaat tgtgttaatg cgctgcatac ttgatctctt atttatgact tgattacaat 180
 cgaccaatgc cataatcaag agcttaatta g 211

<210> 2026
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 2026

tatgagagtc acaggctata ttataagtt caaatatgct cttctaagtc tttcttaata 60
 taaaaccatt tatgtgtctt caccttatag cttaagcttt ttgggggtgt agttcatgag 120
 atgatatcag agcctctatg accaacttgt ctagagttca attcttgctg cccacactct 180
 tataaaaaag ttgaattact gcacaaggta ggtggacttg tgcattatcc atgctaaggt 240

tcttgtgtga gggggtgttg gagatgtaat ataaaactgt ttgtatgctt tcaccaaaca 300
 atttaacctt ttgggattgt tggatgataca actatttttt caaacacatc cctccattgg 360
 tagtttggtg cttctatttt cacttcaatg tagcttgcag ttgcagtgtt taatattcca 420
 actatttgca attaccattt cctttccta 449

<210> 2027
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 2027

agcttcacca ccaagatgag ccttggataa aaagcttga gaagatgctt caatggagga 60
 aaagacagag ggagagaaag agagaggggg gagcacgaaa ttgaaggaat aaaagaggta 120
 tagaagtga actttgaagt atgtctcaca agactctcat tcatcaaaag tacaaccaag 180
 tgtacacatg c 191

<210> 2028
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2028

tgtaggatta tggcgtaccc atcacatgtg gtactatgtg gtggccgggc gatggtgcac 60
 aataagtttt ccacatgcac aatgcacgca taaaccacc atcccctgtt gccacctcc 120
 aactgagctc acgtactccc acgtagctca tatccatctt tctctcaaca ccaggacccc 180
 atcaatcctc ccaagcttgc ccaacatcaa agttatacaa cattcacaca gcacaagcta 240
 tcacagctaa tcaaaacagg gcaaattgcag aacactctgc ccagaacacc aacaaaaatc 300
 acagcttttc acatacaaat accccagana cattttcttc gttccaattc gttaaccggt 360
 ggatcgactc gaaaatttta ctgcaagact ctagtactta agcctaaatt gagaccgttg 420
 ggatctacta tcaaacatgc agagctcatt ctg 453

<210> 2029
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 2029

agcttgaacg tatgtaagac acatcttctt aacctttgtg attctggact ccatttcatt 60
gaagcgcata tccacttgta attccaaatc gtcaaacctc tcaccaacaa aggtttgaag 120
accatcaaac ctgtctaaaa tctgaaagga gagatgaatc ctctccatca tgtccttctt 180
caccaacatg gcgagtacct ttcttcaccc aagagccatc atgctccttt tgataaccaa 240
aagatgctat gactaaagtg cctataagga aagatctctt gattggaaca taaggtttag 300
aatcaagagg gatgttgaag tgttgaagga aaagggtaac aagatgaggg taaggcaatg 360
gagcattcaa tcgcaatgcc ttatgcatgc aatatctaac a 401

<210> 2030

<211> 445

<212> DNA

<213> Glycine max

<400> 2030

tcaacctaga ggagacggac cattccaagt gttggataat atcaacgaca atgcctacaa 60
gattgacttg cctagtgagt ataatgtaag tgccactttc aatgtgtctg atctatctct 120
ttttgatgca gatggagggg ccttgtatctt gaggacaaat ccttttcaag aaggagggag 180
tgatgatgac ataaccaagg gcaaggacca tgaagcactt gaagggccca tgaccagagg 240
cagacttaaa caagcccaac acgtcataga gacaaggctg gtcatttgta tagctaccat 300
tgatgatgat tgaaggccca agtggagaaa gatgaatgcc cacaggcata ggcactacca 360
agactactaa ttgttgctga acgcccgaagt taaataagtt tttagttata atttattttt 420
attgtaactt tggcccaaac tgttt 445

<210> 2031

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2031

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tcggactctc aaccacttat gatagccgcc gatgatccca ttactgcttc ccctaagctc 120

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<400> 2032

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<211>      410
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      2033
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<212> DNA
<213> Glycine max

<223> unsure at all n locations
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<212> DNA
<213> Glycine max

<223> unsure at all n locations
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<210> 2036
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 2036

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 ttagaagcta ataatttatt gactcaacaa attgcaccac atagtacaag ctcaaccgcc 240
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<210> 2037
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2037

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 cccatatctt gcgtaaaaat tcgcaatact tcaactgtac atcattcgca tggcatccat 360
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<210> 2038
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 2038

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<210> 2039
<211> 253
<212> DNA
<213> Glycine max

<400> 2039
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tagtttaaga ccg 253

<210> 2040
<211> 363
<212> DNA
<213> Glycine max

<400> 2040
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aattcattgt gctatggctg gactcaattc acgaaatttt tctaaatttt gatcaaaatg 300
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<210> 2041
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2041

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 taaattcaat ttgaaaactt tttcaaaaaca atttagctac tggtaatcga ttacagcaat 180
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<210> 2042
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 2042

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<210> 2043
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2043

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<210> 2044
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 2044

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<210> 2045
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2045

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 actaggagga tattgggaat agaaatcaaa caggacagaa aaaggaaatt gttatatttg 360
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 gtaactactc ctatgtctta gcagtttaag ct 452

<210> 2046
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 2046

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 gccaacccag accaaataca tataatagga aatgccctag acataaagta atcatctcta 240
 acaccaact cagtgtgaaa attacgcaaa aacataagtc aatagggtgtt cgcccataac 300
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<210> 2047
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2047

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tcgcgtgcta tattttaaga tcaacgaaac gtgaaataag ttatatattat gttttaaggt 360
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<210> 2048
 <211> 356
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
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 taactaagct cacctccttg agaagctctc ttaagaagat tcctaaagat gctagagctt 300
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<210> 2049
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2049

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 cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagatg 360
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<210> 2050

<211> 304
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 tcgtttgccca ttactggtct tattatatat atgattggat atccttcttt tctttatttc 240
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<210> 2051
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2051

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 caaagtctat gctaatagct aggttgacat gtcttatact tcaacaagaa agtcacttct 180
 tccatcagag caggatatgca ccagcaaagt gcgtctttcg atgaagatca acactttcaa 240
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 acaaagaatc tcatacataa aatattaaat gtaggtatta attaaatgca ctacttaatg 360
 ttatgacaag atcatcttat attgatgtaa catcagaaaa ctcanacca gaaatacaaa 420
 ccataatctg ataacacatc anacacaatt t 451

<210> 2052
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2052

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 aataacanat ttataaattt gccgaaagat ttctgacttg gttgttgtgt tacaagttaa 300
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<210> 2053
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 2053
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 acggtgtgtg tgtgcgaaaa taatgtttga aactcgtgtt caaatttcac gacaatccaa 360
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<210> 2054
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2054

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 tggggtaatg ccaattggag gtcccaacat tgggtgggtaa ataaacactc ttcaaaaaca 240
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cctataaatt aagaattctg atttagtgat gaaactaaa 459

<210> 2055
<211> 418
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2055

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<210> 2056
<211> 451
<212> DNA
<213> Glycine max
<223> unsure at all n locations
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<210> 2057
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2057

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 tatntgtgga gggtaattgc agtgctatga ttcanaaaat tcttccacca aagcaciaaag 120
 actctgggag tttgaccatt ccttgctgaa taagtgaagg tacagtggga aaagttctca 180
 ttgacttggg agccagtatc aatctgatgc cactctccat gtgcagaaga ctgggagaag 240
 tgaaaatcat gccactaga atgactttac agttgggtga ccactccatt accagaccat 300
 atggagtaat tgaagatggg ttgtcagagt aaaacatttt attcttccag cagacttttg 360
 tgtaatggat acctatgaag atatgacatt ccctaattctt gag 403

<210> 2058
 <211> 233
 <212> DNA
 <213> Glycine max

<400> 2058

tagaaaggaa gcttcaatgg tggaagtga tgagagagag agagaggagg gcgtgggaat 60
 tgaaggagat tatggagata agttgaactt tgaagtgtgt ctcataaatt tctcattcat 120
 caaatttatg acaagtgtta cacatgtttt tatttaaagc ctagcacatg ggaagctccc 180
 ttgggaagca agaaaggtag cttccttgga aagctagagg ggggctactc aca 233

<210> 2059
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2059

ctcttggttc ttgattcaca actcttggtt ttttgcaactt ggttggcatt gttctttaat 60
 ccttgatgtc cgatttatag gtagataaaa gctcgtaatt atggagagta tcttcaagat 120
 tgaataatat ggtcaatgtg tagattgatc ttatttcctt gaataagtgg atcctacatg 180

tttttgtctg atatgattag aactttccat anttgtcatt cataactcaa tatgaccatt 240
 agacttataa aaggaaatat aagatttatt cgcagatatg ctctttttaa acaaaatcat 300
 atanactgat aaatcaaata aaatgcatat tcaaaaatggt gtttgatgg actggacgag 360
 tact 364

<210> 2060
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2060

ntgtatccta gggaggggat tgcagctaaa tgctgatggt cagcccttan agatattaag 60
 gaagaacatg accacttttag ctaagacatg gagtgttctt tcctttctta atttgattcc 120
 tacctcccac acatctgatg tcacattgga tagagccaag taaatctatg gcattattat 180
 gaagatggat atgaatgtgg ggtacctaat ctcccaccag atctttctaa caacatagca 240
 tgattcatcc agagttggat tccctgcctt gatcatagct ctatgcaagg ccagaggagt 300
 ccaatcatat tctagatccc tggagagcct gagccctgcc attaacttgg catatattaa 360
 gaagaactgt tggaatctag atgatccaac agtgacattt a 401

<210> 2061
 <211> 331
 <212> DNA
 <213> Glycine max
 <400> 2061

gagaatactc gccagtgcct agacgctgaa tgtcaaaatg tgacctggga tgtcttccag 60
 agggatatctt tggagaaata tttccctgag gatgttagga ataagaaaga gatggagttc 120
 ttggagctca aggagggaaa catgattgtg gctgaatacg cagccatggt cgagaaagtg 180
 gtgaggtact ttccccatta tcaaggtaga gatggcgaaa gttccaaatg tgtgaaagtt 240
 ctgaacagtt cgtgacttga agtgaagcaa gcagtgaatt accaagggtg tcgtcagtat 300
 ccactcttgg ttaacatgtg tccgatttgg g 331

<210> 2062
 <211> 441

<212> DNA
<213> Glycine max

<400> 2062

atataagcgc ggctctggga gacaaaggtc aagcgttcgt gatatgctag gatgatattc 60
cgagcacttt ggatttggtg cgaccatgcc ctctgattt ccagctggga aattggcgag 120
tgagggaacg ctccgacatt tacgcgacga gcataatgta aacctttacg gttttaaaag 180
ctctatagtt gggcctacgc tttagagctt ttccttttgt taaggctatg agtcttttgt 240
ttttgaatct ataatacaag gatctctctt catctgatcc tggactctac ccattctcat 300
tcatttgcag gtttacttgt ttatctgaaa cggcagatac gatgacgagt cccccgaagg 360
tactaatacc tgggacccgc ctatcgactt cgagcaagag atgaatcaaa cggaagatga 420
aggaaatgag gatgtaggac t 441

<210> 2063
<211> 311
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2063

cttgtcttta aatctttctg actttgtaac cgncattgca tgtcttatgc ttgcttcgaa 60
aaaccttata gaaagagact ttgcgaatgt tatectttca tgaaatgcgt gttattttcg 120
taacctacac tgaaccctgg acacattggc gtggctcgaa tttccaaatg atgttccttt 180
ggaaaacctg aaatgctccc atctctttca tgaagagatg tgggtgtttg acccacagca 240
ctgttactag ctttggtttg tgaaatccat actaagtctc cttcattttg gcatggtaga 300
ggcttgctg g 311

<210> 2064
<211> 462
<212> DNA
<213> Glycine max

<400> 2064

actaagcttc ttatccaggc acattcttgg tggtgaaact ctttcttcca tggcttattc 60
ccttggtgat ggagcctccc ctctctctt ctcttttggc ttccgctgca tctccatggt 120

ggaaaatcac cattgaagct caaagatcca gcctccatag aagcttcaca tgcaagcttc 180
catcagagtt agtgcaactc gatgtcaaaa caacctttct ccatggaaga ttggaggaag 240
acattttgat gcaacaacct gaagggtttg aaatggaagg gaagaaaaat tatgtatgta 300
ggttgaaaag gtttatatat gggttgaaac aatctccaag gaagtggtag cagagattcg 360
atgagttcat tattactcat gggtagaaca gaagtgccta tgattcatgt atctattata 420
gtaagggtggg ggatgggttt cgcacttagg tgctactcta tg 462

<210> 2065
<211> 359
<212> DNA
<213> Glycine max

<400> 2065

ctcatctctt ctttggttga gctttgtgca aatggagaaa aaagaacttc aatttggttt 60
ttaaagagac atgatgatga ggggttaaagg ttaaggtagc aagcttaatt gaccacctga 120
atgacttata accagcccat gggtaacgtg cccagccatg caattttagt gcattatgcc 180
ttttgaaaat ttaagccaaa atggctaaag taggtttaaa ccaaaaaatg gaaatttctg 240
cttttgctaa aactagtaaa cctataccta atcccctaga tggacgtgtt accctttctt 300
ggattaagcg taatcaaagt ggacgttgca caaagttcac tctcacagaa actaaatac 359

<210> 2066
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2066

tccttgagaa gctagagctt atctacacac acccatctaa taactaagct cacctccttg 60
agaagctttc ttgagaagct agagcttagc tacacacccc tataatagct aagctcaccc 120
ccatgacaaa gaaacatgat aatacaaaaa aaatcctact acaaagacta ctcaaaatgc 180
cctgaaatac aaggctaaaa ccctatacta ctagaatggc caaaatacaa ggcccaaaat 240
aagaaaacaa cctattctac tatttataaa gaagagtgga cccaaccttg gcccatgggc 300
tcaaaaatct accctaaggt ttatgagaac cctaaggcct tctttatcaa ctctagccca 360
atcctcttgg agcctcttgc tcatggctct ggtaactggt cctttcctag ggaggattgc 420

atcactntat aacagaacgt cccccaca

448

<210> 2067
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2067

gtcgtttcac ccaaatcgtg ttttcaagtt caccanagcc aatactgttg acaaccttgt 60
gaaacctgtg cacctaggat acaaaggcaa cttgaaatca ttttctagtt tgtcataaaa 120
aagggcatgt gtcgactaa atccctcttg gcttagatcg tgaatcattt cttctataca 180
atttcccatg tctacatcca cagtctgagt gtcagcaact gatggtaggt gttctggaaa 240
ttcccatgcat catatccatt tagtgtaagt tttaatgatc ccgtgacata taagatgtga 300
tcttatctca cttataggct gatgtctccc atttgacat ttgacacacg gacagaaata 360
tttttcccac acagatgaaa cattgagttc agtaaaatgg gaggaattgt tcaantcca 420
ttctcactact cctcactaat g 441

<210> 2068
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2068

tctgggggac atcttgactt gctttccaat ctgacattct ccacagattc tgccttcttc 60
tattntcaga ttgggaatgc ctctaacagc acctttgtca atgattttct tcatgcctct 120
taagtgcaga tgtccaaatc tttgatgcca tattctgact tcatcttctt tggaggatag 180
acatgtggag gagtaactgg tttcttgagg tgtccatagg taacagttgt cttttgatct 240
gctgcccttc attagaactt cactcttctc atttgtcacc aagcattctg actttgtgaa 300
gtttacattg aatccttcat cacacagctg actgatgctg atcaagtttg cagtcagtcc 360
cttcaccagc agtactttgt ccagactagg aagtcacatca tggactagct ttcccatcc 420
agtgatcttt ccttttagagc catctccaaa tgtcaca 457

<210> 2069
 <211> 542
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2069

ctctactcta cattcacnta cttctatcta atgtatcgtc tattnntnac ttaatcccct 60
 naaccncacn acgnnttttg acccttgatt tgcnancttc ntgnaccggg atccatanag 120
 acgacctgan gcatgcaagc ttctcaggaa gtgtcctaata attatagggg cgcggaacta 180
 aactctaact tctcaaagaa gattttctcaa aaaaacctct caaggaagct acctaatacta 240
 taataaaaca gtgaacactt gtgaactttg agaagaaatc tggaacacac tcaaggtaac 300
 ttctctccct ttttcttctt tcaatttccg gctccccctc tctctttctc tccctctttc 360
 ttttctctca ttgaaacatc ctcttcaagc ttcttatcca aggctcatct tgggtggtgaa 420
 gctccttctt ccatgactta ttccttaate gatggcgctt ctttcacctt tttcctttgt 480
 cttcgctgca ttccatggtg gaaatcccat aaaggaccca ttgagctaaa aaccagctca 540
 tg 542

<210> 2070
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 2070

taccctcaag aacagtacgt tgtagggcac gtcaacactc ataagggcac gatgacccta 60
 ggttgcggtg gtgcgaacaa cacatgatgc ggaggtagcg gaggcgctga caatgtatgc 120
 ttccttttgc ggagctcacg gtggtgcaag ggagattgag ggcaatagga gacatcggct 180
 aatagcacia ttttcaaaca gtgatttcca ggtacgcgtg ttcaattaac gcacaaaagg 240
 gaggatatat gaaagcatgt taacgacggt gtagttgtaa acccgtcttt gatactcaat 300
 atttctacga tgggtgtttac aaatacaccg tctttaataa gctccggcct aacctacaaa 360
 gacagtgtta gcacaaaacg tcgttgtaga catcatgtgt cgtgcacatg cccagtaaaa 420
 atgtcatata ttacgtaaa tgccactgat c 451

<210> 2071

<211> 302
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2071

ttattcgntg accacagagt ggtacctgga gatatgtcgc gggggtcagg agaccttggg 60
 gacgtcaggt ggggtgctat tgcccacaaa caagcttgac caatcccgc ccaacccggg 120
 catagtcagt cagtgagaac ctgtgatgta cctaagcagg cgagctcctg acagtcaata 180
 gataaaaaga actaagacca caaagcaagg aggcttgtgt ggtggctggc caactgtgaa 240
 ctttgattga tatatgggat atggcctctg gtaatcgatt accaaggggtg ggtaatcgat 300
 ta 302

<210> 2072
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2072

acggaccttg aaactaagct tgaatcgata cacaaggctt gtaatcaatt accagatggt 60
 ttaaacattt tataacaacc ttctgaaatt tgaatttaaa ttttaaagac ctgtaatcga 120
 ttacaacttg tgtgtaatcg attaccagac atgaaaattc aaatttcaaa tctaaagagt 180
 tacaactctt cagaatctaa ctgtgtaatc aattacaata gttatgtaat cgattaccag 240
 taaggaattt ttgaaaataa ctccaagag tcacaattat tcaaaacgtt ntttgatgg 300
 tcatcaaagg cctataaata ggtgacttgn ggtacaaaat tccttagatt tttcctgaac 360
 aaattttctt atcctctcaa taccaaattg tcttataagt ctaaaaaaag aattctttgg 420
 ccaaaacact tgcaaattca gtaaggaatc ttgagtgatg ttcaat 466

<210> 2073
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2073

ttgtggataa ctgggtggng ggtaaagaga aggtttgtat tggctgagta atgacattgg 60

tgggttggtg ggttggccgt ataagaatgg taatcacaag atgggtttct tcctttttct 120
 tacccttttc atttggccca gtcttctcaa tcggcctagg aggatgatca aatttgctc 180
 ttttcggacc cacatcgatc ctttctactgg cgaagaccaa atccggaaag ctntgaggg 240
 gtgcagccca ccatcttttc atagtagagt atcgataatg tgtctaccat cactgattatc 300
 gtctcccttc catcattgng gatacacct gngccgcaga tcccttcacc ttttgggcgt 360
 gttctttgaa agatccgncc cctttttgca catgttttga tg 402

<210> 2074
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2074

tcctcttatg agtgcatagc tctttcanaa atttagcata tcttgaatt tgctttattg 60
 catccagtag aggtatgttt acctctactc ttctaaatgt ttccaagatc tccttctccg 120
 cctcttccat tttcttggtg gaaattgctc ttgggtggaa tggaagaggg atatgctact 180
 actgtaagtc agaattacca gtagaagatt cacctgcata gaaattgtta ggcaacttac 240
 tcttttaaatt tttgtcatca tctttttctg gagttgagtg acgttgggca ggttcatttg 300
 cagatgagga agatgctact agttgaggtc cttgatactg ttttccaac ctcaatgtaa 360
 ttgcactcac attcttggga ttctgtacag attgagaagg taatctgtca gaattctggg 420
 actggttttg atttaactat gta 443

<210> 2075
 <211> 596
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2075

atcctctctc tgcgaacgag cagttctacn attcgctctt ccnntatcac tcattattatn 60
 tatcgnaagc ccaatntnac tatgactcac acntattcga agccgtatga tttgaaacca 120
 tcttgaccgg tgatctctta gtcgactgca gcatgaagct tggcttcatn cattctataa 180
 gcttatttga accatttaca tgaatattgg tcattcatata tcataaggaa tattacttat 240

gagttaacta acaaagagat tgtgtaattc acatttactt aacatcatca cgcaacttgt 300
 agtatagata tgtttcaaca ctttgtcacc tgatattatt tcagctacat ctgcatgtat 360
 aatgaaaaac gatgcttgta cattangaat acccaatttt gtctcattcc acgacaactc 420
 aacaagcttt agtaaaccatc aaacacgttc ttaatcaatt ctcccaatgg atcaactcta 480
 agtactatat ttgacctttc aaaagctcca ctcggtcttg gcacacaata tgtgaattct 540
 atttgggtaa tcgacaataa caattaggct atatttatga tacaatttta acactn 596

<210> 2076
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2076

tcacggaact atgaaactca gctatgactc ttggcaattt ctttaaaact agtcacttaa 60
 aattttgtga cttttgaaaa aatcttcaga aacaagtcac ttgaagaatt gtgacttttg 120
 gaaatgtatt tttcgaaatc agtcactggg aatcaattac cattaagggtg taatcgatta 180
 cacatcaaca gatgtgactt ttcattntga attttgaaaa ttaaaacgtt tagaagctct 240
 ggtaatcgat tacaagtgtt gcgtaattga ttacacaagt ttaaaatgat ttaaaactgt 300
 taaacacaag ttgtaactct tgaaatttga aatcttaacg ttttaaaaca ctggtaattg 360
 attactacct tctgctaate gattaccaga gtgtaaaact ctttggtaat gatnttgtga 420
 aaactntntg tgctactcaa tattntgaaa aacttttcta gtacttatgt tg 472

<210> 2077
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 2077

agcttatgcy catattttct tacgaacgtt tacttgcacg agacatccta tcaactaaga 60
 aaaatgcacc catatacaat caaggtagct tcattaccta gattatttac atgtacttgc 120
 aagggtgatt tgttatttac atcacacacg cctccttggc tgaatttaca tacatgcata 180
 ctcaaagcat tttgggggtac caaaaactgc acatgcgctc atcttgggtat ttctaatacc 240

cctacatata caaacttcac gatgaatctt gactacctac acaataaggt gctacatttc 300
 atgctttttt tcaagttttt gctacctaaa gccacatgca aattcaagca tatatttctt 360
 tgctgactaa aaactgattc aaaatagaac ggattatatt ttttgtaata tgttttcttc 420
 acataacatg caacata 437

<210> 2078
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 2078

ggatcaatac aattatctaa tcattccaat ccactcttat atacaattgc tcattcaaatt 60
 cattctcaaa cactcatttc ataccaaaca atccactgca tatcatttcc aatcaattca 120
 ctgttcaaac acacttttgg tacaagcaaa taactcaaag tgctgaaatt taaataactg 180
 aaatttaaag aactgaaaat gttcatgctt tgcagaaatt aaactaaaca caatttaaac 240
 atgctgctca tcctgtggct gatcttcatt aagatccagt gttggcactg ctgatgaatc 300
 ctggataggc tgctctggct ccgtgactgg tgtagctggc tgggtctcct cgggaacagg 360
 tgcaagagat ggcttaggta tctaattctat ggaagtcccc tcctcttgat ccatgtgtgc 420
 atatgcat 428

<210> 2079
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2079

ctgcagcttg ttctttgata attgtgcata acgtctgtga attatttatt atgaaattgg 60
 tgagtgggtgg tacatcttga ctcgagtgtg tgattcatgt gtaatgtgat tggtgattga 120
 aaaatgatat ttaaatagata tagtagtgag gtgacatgga ttgtattaag tcgagctatg 180
 ttataaatat tactataacg catttttctt atatctttgc ttatctataa tttatttaag 240
 aatttgataa cttactccct atgtattgtt tgtgtttgga ttctatgatg atcttgaacc 300
 ttgtatttgt gggagaagat gattangtgg atgacttcta agaactctgt gctagaggac 360
 gctgagacac tatgctctaa taggatgtga cattggggca ttgggttttg ttttaatcgc 420

atg

423

<210> 2080
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2080

ntgcagcaga tgccactcta ctctaaattt tttaaagata tgtaacaag gaagaacaaa 60
 tacattcatc aggaaaacat cagagtggaa ggaaattgca gtgctgtgat ccagaagatc 120
 cttccacca agcataaaga tcctaggagt gtaacgattc cttgttcaat tggagaagtc 180
 aatgtgggaa aagctcttat tgacctgcca gccagtatca atttgatgcc attctccatg 240
 tgcggaagat tgggagagtt ggaaataatg cccactcgaa tgactntaca attagctgac 300
 cgctccatta ccaggccata tagagtaatt gaagatgttn tggtcagagt aaaacatttt 360
 aacttcccg cagactttgt ggtaatggat atctctgaag atactgacac ccctgtatta 420
 ttgggaaggc tattcatggt gac 443

<210> 2081
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2081

agcttaanan aacaagaaat gaattgaaag tctcggattc aaaaacttac ccgttgaaga 60
 acgaagaacg gatgaagaac ggtgaagaac ggacgaaaac cttcacggac ttgcttacgg 120
 aaacatctcg gaagcgttac ggaagcacct cggcttggat tttcttcacg gaaacaattt 180
 ttttcacca aaacagctga aatacatagc caggggcctg aggcacctt agaacagccc 240
 ccttcagcct ataaaagcaa tctagcttca aaaaaacatt ctggaaggcc caatccaaaa 300
 tttegaaatt gctatttgca ccccccaat ttgataagt tcacccctt ctttcgtaat 360
 ttacgggaaa gttacggaag ccttacggaa gcatatagga cttgatttta ttctnttttt 420
 ctct 424

<210> 2082
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2082

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 acctggagat atgtcgcggn ggtcacgaga ccttggggac gtcaggtggg gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag tgagaacctg 180
 tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaaa caagaccaca 240
 aagcacggag gcttgtgggtg gctggccagc tgtgaatttt gtgtaatatg tggattgtgg 300
 tctctggtaa tgcattacca aagggtgagta atcgattaca aggcttaaaa tngaagacag 360
 g 361

<210> 2083
 <211> 493
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2083

nttgaaacat gagtaccgnc atctntagac cgacctgagg catgcaggct gaccaaacc 60
 ggtgagagtg tgactttaac tattagtgga cgactaactg tgaagaataa tctttggctt 120
 catctctgga ttttaaatg gagtgggttaa atgaggacat gatgaagggc atgattatgc 180
 ctacaccagc ctttttgaca aaaaagttac cttgaattat aattggattc tttgcacct 240
 tttatgagct ttcaaatgg aaccctgaac ttacatgatt atctccagaa accttgctta 300
 gattctagga gagcatatgg ttcaaggcaa atttaccbaa aatttggggg agtggagtta 360
 attgggatgt aaagaaaaag ggtaaagcat catcacacac acaatannat aaatgggtgtg 420
 ttaaaaaaaaa caatgaaagg gaaggtgggc tgatataata aggggtcaaag caaatgaaag 480
 tgaaaagcta gtg 493

<210> 2084
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 2084

ttcgcacatc gttcgcgtgt atcatatcca ctccacaatg tttgaagttg atgagacctt 60
caatcctatt acgcaacgtg gcggaacaaa gtgggcattt aacttgaatg gtcattattg 120
tcaatgcgga aggtattctg cgcttcacta tccatgttta cacattattg cagctcgtgg 180
ttatgtgagc atgaactact accaatatat acatgttcgc tacacaaatg aacacatttt 240
ttaagctttc tatcgacaaa tgagggctct cttaggaatg aagccgctat tactcctcct 300
aatgacgcat ggacacttat cctgactca actataattc ttgcgaaagg tgtgccaaat 360
caaca 365

<210> 2085

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2085

tagaaatcaa gtgatcatca attccaaaac atagggggag tgatcgtaaa ttntatatat 60
atacattgct tgcttgaatc ttgatttcag gacttatatt gtcatcatca aaaaggggga 120
gattgtagaa gcaaatgcct ttggtgtttt gatgatgac atgatgagtt gatgcaaatg 180
atgcaaatgg gcttttcaag tttaaattca agacaatgat tcaagaatgc aagccacaac 240
atcaagatga tcactattat tttaggaagg gaattcctaa ttgatatagc aaaagggttg 300
gccaagtaat ttaagttaaa aaagtgtttt ttcaaaagat ttactctctg gtaatcgact 360
accagaggat gtaatcgatt accagtggcc aaaaacgctt tacaacagct actaaatatt 420
tgaattcaaa ctttagactg tgtaatcgat 450

<210> 2086

<211> 180

<212> DNA

<213> Glycine max

<400> 2086

aatgaagtga aatccaacat ctatatgctt ggttctatca tgatgaacct gatccctggc 60
catgtatata acactaaggc tatcacagta gatattaaca tactcttgat taataccgag 120

atcatttatc agacctctta gccaaattcc ttcctttggc agcttcagta agagtcatat 180

<210> 2087
<211> 455
<212> DNA
<213> Glycine max

<400> 2087

ggatccatca tacaattggt aattgtatca ggtatttaat gcctacaaaa atgggtgagtt 60
gcaatgaagt tgtaattgca agttgagaga cagactaagt aacagcgagt tagtgatata 120
caaatgctaa tatatcaatt atgggtcaata attcgtcttt agtcctttta aagtgaaaat 180
actataatat agtagatgta tcttggtgtc ccttaaattt atacaaatca aacaaatcct 240
aattgtctta ttcttactgg tttctaact ttatttaggt ttgtggttgc attcagagag 300
gaattctata agttgtagtt gccgactttg ggtgacatca aggaaagggg aagatttaag 360
ctaggattgc ctattttgag cattatttaa cttttttatg cactttaagt atattccttg 420
tttaattcca ctttaagttg gcaccaagta aactg 455

<210> 2088
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2088

attcaattaa gaaagagaaa tccccaagag aaacgttcca ttgggtttttt gggttatttt 60
actaaaagaa attttttgat tattatatta atattttacc tctttttggg ttccaacgtg 120
gttaccgcat gaccgaacga ttggatttca ttttaacaga aattaacgga tattacaatt 180
caaatgatca gtggaagttt attttatttt ttgattangc gagaaaacgg cttaaacgat 240
cagttaaagc ttcgtcaaaa cggaagaaaa gaaatcaaaa ttgaacgaaa taaaaatgaa 300
agcccagaaa caataaataa attaaaagtc tcagatttgg aac 343

<210> 2089
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 2089

tttctaaaag ctgttacaaa ctatttaaac tttnggtaat caattacata ccttgtgtaa 60
tcgattacat ccttttaaaa tcaaattcga aatttgtaaa actgtttcag aaatcaattt 120
ggtcactggt aatcgattac atcctctggt aatcaatcag agagaaaata tcatattttt 180
gaaatctcaa aaagcttttg taaaatatcc tttagccaaa tctgtgcaac atcaattaag 240
gaatctttct aagatcctag gaactaagta cattgttctt cttgaattta tggattcttg 300
acttgaatcg cactcatctt tagcatcatt gaaacttcac atcatatatg cttctacaat 360
ctcccccttt ntgatgatga caataatcta aaatcaagat aaacgatata caatttgata 420
atgctgtgctc acaacc 436

<210> 2090

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2090

ctcctctctc taaaatctga ttntaggtt aaataggtgg ccttggtcgt gctcgtgcgc 60
ttagcgtaat tatggaccgc ttanacaca ttaatgaatt tcggcttagc gcgtagcctt 120
gtcgttagc ggatgaacta aagcaatgcg cttagtgaga tgaagcagtg cacttagcga 180
acctgtacaa ctcatcttct tccagagtct tctcgcgct tagcccatga gtgttgcgct 240
tagcgaaagc tcactaagcc agcagattgg ctaagcaaga aggtgaaaaa caacactttt 300
caaagcttgc ctaattaacc tgaaagtggg agaaaataat tattaacac acaaaatgga 360
agtactaagt atttattacc tatacttaac agaanatact tataacacta caaaataacc 420
at 422

<210> 2091

<211> 469

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2091

tactcagctt tgcaagctgg aatcatttat cctatcttcg acagccaatg tgtgagtc 60

gtctaggtat tcccgaagaa aatctgcctc accgtgataa aaaatgagaa ggatgagctg 120
 attcctactc gaggcagaa cagttggaga gtatgcattg actataggag gctgaaccag 180
 gttacaaaaa aggaccattt ttcactgcca ttcattgacc agatgcttga acgcctggca 240
 agtaaactc actactgttt ccttgatggt tttctggtt atatgaaaat cactattgct 300
 cctgaggatc aggaaaagac cacattcacc tacccttgg acactttagc ttataggagg 360
 atgcctttcg gcctgtgcaa tgcccttgg accttcacg ggagcatgat tagtattttt 420
 agtgattntt tagaannatg catagaggtg tttatggatg atttcactg 469

<210> 2092
 <211> 358
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2092

ctggtaatcg attaccgaaa cattgtaatc gattacaaca ttttgaaatt aattggaacc 60
 gttgaaattc aattgaaaaa ctttttcaaa acaattttgc tactggtaat cgatcacaac 120
 aatccggtaa tcgattacca gaagagaaaa actctctggt aaaagggttt gtcaaaaact 180
 catgtgctat tcaaaagttt tgaaaaactt ttttaatactt atcttgattg agtcttctct 240
 tcattcttga atcttgatcc tcattcttga catctngaac cctgaatctt gantcttgac 300
 tttagacttt cttcttgagt cttgaattct tcttgattct tatcttgaac tcttgaat 358

<210> 2093
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2093

ntgngaagta cgggcgccc ccatgatgtg aaaattcaaa acgagcacgc cttcctgcca 60
 tatggcttgc ctctcaacta tacgccaccc aatgtggcgt acactcccaa tgagaatgtc 120
 aataacttca ctctataacc cattgagagc caacaacccc aaactgatca tgcacatgtc 180
 tcttaaaccg taggggagac acatgaaatt cccaccaca atctagccga cttcgagcct 240
 tgcctcggat atgccactga agggcaagca gttggtggta taccctaca aaaccctttg 300

gagggccctc agtatcacc ccagctacac ctcttgcat ccacaacaag taaaaaccct 360
 cgtgctatga cagaaatggg aaagttggat catctagagg aaaggctcan ggccattgaa 420
 ggaggtgaag attatgcctt tgctaacct 449

<210> 2094
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2094

gcatctatgg aggctgtatc tttgagcttc aatggtgatt ntccaccatg gagatgcagc 60
 ggaaggcaaa ggagaagaga agaggggagg caccatccac aagggaataa accatggaag 120
 aaggagcttc accaccaaga atgtgcctta gataaaaagc ttgaagagga tgctttaatg 180
 gaggaaaaga aagagagaag ggggggagcac ggaattgaag gaataaaaga gggagagaag 240
 tggaactttg aagtgtgtct cataagactt ttattcatca aagttacaac aagtgttaca 300
 catgcttcta tttatagact aggtagattc cttgagaagc ttctttgaga aaacttcctt 360
 gagaagctag agcttagcta ctcatatccc tctcataact aagct 405

<210> 2095
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2095

acggacctat aaaactcagc ttaagggaca acaccccatg atctgcttct gattgacacc 60
 tctgattcct tctctggctt gttgttggtc acaataggat gccttctctt gatggttgct 120
 tttgttaagg acatagactt tcagagtttc tttgcctaag ggtgtgtgat gcttcacatt 180
 tccattgcag tgtggagatt cttctttgag aggaagcttg gggatcttgc acatgagtgg 240
 cctaggcatg ctgttgggga cattgcattg gccatttcat gggctctttt tcttgtgtac 300
 acatggagag agtaatatga ttagttaatt tatttaataa ctttgaagt ttttgggtgct 360
 tgtggttgta gaaacaacat ggcccanatt ggccttgtga atgctcagat tcttgacata 420
 aatggagaac cattatatga gttctgttct tcttcaaaga gagaatg 467

<210> 2096
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2096

agcttatcgc catctttcat ggcggcaccc tttcttctcg ccattgcaga tggcggaaca 60
 gccatcccgcc cattaccact tgcgggatcc attgaaaaaa cagacccccca atggtaaaat 120
 cgaccctgaa tggtaaatag tttttaaaac taacccccta cagtaaattt ggcttggcta 180
 agtcgcaaat tcttaggtct gagagaaacc ccaatctttc tcggggagtt ggcaccagcc 240
 aagcaaaaac tgggtggcgc ataggtctct ctaanaacac attactattg gttcctacta 300
 aattactctt gacctttacc ggtcaataat aattatcaaa ctacattctt tcaccttacc 360
 caaaatactc cctcaatttc tggccctttt tcattcattc attctctctc cctaattctt 420
 t 421

<210> 2097
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2097

nggagtcggt gacttcgaag actntgtcag atctcttttg ttttccaccc aaatgcttca 60
 ttaaaagaca agatagcttg taagttaaag ttcatactct tagcccatga tttattggaa 120
 atactttact gtaatctaag ttgttgatac attacgttgg tttggtatct tgtttcagtt 180
 tcatttaggc tctatgattt gcacaatact ggctttatag agcgccctga ggtaagatgg 240
 tgattntcct ttctaccttc ttcatttacc accagaccaa ccttataatt gttagttggt 300
 gaagtgttta ttgctacaaa tacaataaca ataagtgcta acctacacgt acgtagagat 360
 agggctttga tgtgatggga tgatctcatt ntggctcggt gtattttttt catggcatct 420
 atcttcagtg gttgtgcact ccta 444

<210> 2098
 <211> 415
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2098

cattctnatg aagattgacc acatcatcta attcttctca tagnagaaga ttaaggggat 60
gaaccagcga tggggcganc gcaccccnnc ncccnccctc tttctcccc cccatcccc 120
ccccctatt cccccctccc ctctttacct tctctcctc cctcttcccc tctcctctca 180
ttctctcct ccttccccctc ttctctcct ccactcttcc tctcctatt ctcttctctc 240
tcttctcttc ctctcccttt atctctcct ccttctctc tatctctct cctcctctct 300
cctcccttcc cctctcctgc ctctctcct ttctctcct tcttctctc ttccctcct 360
cctttctcca tcccttcttc tctctcccc ccttccctct tcacccacct ccccc 415

<210> 2099

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2099

nttcgactct tttctctcaa tgaactgatg ggatcatctat tntgtgtaaa atcagccaag 60
tcaacccaag tccattgcat tttcaatcta gtatgttgct cagtttggcc atatgtaggg 120
ttcctaggcc aactgggtcg attgactgat ctgagctagt tctaataaca ttaagcgccc 180
cggaggcaac aatttggggg taagaactaa acatatataa gtattttgtt taataaaatt 240
ttattaaatt attattatta tgaattaaaa ggtattttta atattaaatt aaacaaaatg 300
caaacttgct aactaaattg tgtcatgtca caacatcctt aacaagtggc aactgcaaag 360
tagacaagtg tacatacatg ccattagtta atgacctang caacaaggac tcaaaaattn 420
tttgatagag aaaagtgt 438

<210> 2100

<211> 386

<212> DNA

<213> Glycine max

<400> 2100

agcttatgcy caagatccag tccgtctagt gtgaatgacg actgtcaagt ggcattcccc 60

ccgtgcttat gtcgttggtg cccaggagac cccttatcct atacatgact gtgttgatg 120
 ggtcgatggg gtgtatgctg gggaagcatg tcgtgtccgg aaagagggaa cgggttgctt 180
 actacttgag caagaagttc aacacctgtg agatgaacta ctctttgctt gaaaagacat 240
 gttgtgcctt ggtgtgggcg gcacatcgtc taatgcagta catgctgagc cacaccactt 300
 ggttggtatc caagatggac ccagtcaagt acatttttga aaagcccgtc cttaccggac 360
 ggatcgccca gtggcaggtt ctgcta 386

<210> 2101
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2101

tgtgcgaatc anactactcc tgcattntat ctctagcatg cattttttct ttctttaccc 60
 actcctcacg ttaggttttt tagggaaaaa caccataact aaacgcgcca caaggcatcc 120
 ctatcgacac agatccaaat ctagaacgat gggatgatcaa gaggagacac aagaacaaat 180
 gaaagccgac atgtcgactc tgaaagaaca gatggcttcc atgatggagg ccatgttggg 240
 aatgaggtag ctcatggaga aaaacgtggg caccgctgcc gctgttagtt cggctgccga 300
 agcagaccca actctcttgg caaccgcgca ccattcttcc tcaaacatag taggacgggtg 360
 aaggagacaca ctgtggcacg atggcgaccc ttatggattg ccaccaact actcaccacc 420
 catcctacaa g 431

<210> 2102
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 2102

agcttcaaca attgtttaat atagataaaa caatttgtag gtaagacaat gttcatgaat 60
 tgtttaatag agataaaaca acaaccaagc cttttccac tagagagaat gaataacaac 120
 ccttggtata accagcaag ggtcctaaga tattgctact aactttccag cacattaacc 180
 ttgaatgtat tgagcttgaa tatttaattt aatggattaa aaaggtactt catatcacca 240
 ccaaatcagt ggctaagaca atccatcatc aaatttctca ttaaaaaaga aatcttgaca 300

ttaatgaaat ggataaactt tcaatcatat gagctattca ataaagtata tgtgggtcca 360
 aggtgcta atgactggat ttgataatt taaggatcg tttgtgatta taaatacatg 420
 ac 422

<210> 2103
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 2103

tcaggttgct cattgactcc atattgttgc aaagaaggac acatatctga atggtgatct 60
 gcggaagaac atagaccaca gactcttgca ataggtgtag attttttatt catggcaagc 120
 tgagttacta ggttgaccaa ggcaacaagt tttccttcaa gattttttatt ttcagtagat 180
 gaagatgaat ctgtggccac ctcatggact cctctaagga caatagcatc atttcttgca 240
 ctgaattgtt gggagttgga agccatcttc tcaatcaaat tcctagcttc agcatgggtc 300
 atatcaccaa gagctccacc actggcagca tcaatcatc tcctctccat gtttctaagt 360
 ccctcataga aatattgaag aaggagttgc tcataaatct ggtggtgagg acagctagca 420
 cacaatttct tgaatc 436

<210> 2104
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2104

agcttcaacc ctttccaaa actcggcaag gtacgcgaaa tgttattccc actcagatcc 60
 aacaatgtca aagatttcaa actagtccaa ttactcggta tcgtaccact aatatcatta 120
 cctcccaacc ttatctcaac aagagaatct aacttgga cagaaggact caaagtccca 180
 ctaagattaa acttttccaa aataatcatg tccaccttcc cgtccccatt gcaccttatt 240
 cccaaccatg gcccgtaga agggtcattt ccaactccaag aatcaaccaa aatccaagga 300
 taccccaacc ctccaagaaa ctccaacaac accatcactt caaaagcaca cataaccccg 360
 gcctttgcct cacaaaattc attgtttctca taactcactt tactcgctgc anattccggg 420

<210> 2105
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 2105

tggttaaagaa cttagagaag atcaagtata agcttgctct cacatcggtc gtgtgtatga 60
 tatctactcg acaaggtttg aagtagagga gaccttcaat cctatcacgc aacgtggcgg 120
 aaaaaagtgg acagtaaact tgaatgacca ttattgtcaa tgcggaaagt attctgtgct 180
 tcactattca tggtcacaca ttattgcagc ttatgggttac gtgagcatga actactacca 240
 atatatagat gttgtttaca cgaatgagca catcttaca gcttactccg cacaatgggtg 300
 gcctctcatg aatgaagcga caattctcct tctaatacgc catggacact tatccctgac 360
 ccaactacaa ttctttcgaa aggtcggccg aaatccacaa tgataaagaa tgagatgga 419

<210> 2106
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 2106

tgatagcagc gtaatggaga aggagaaggg tgattggaga tgccacttca aggagaagat 60
 gagtctagaa gaagctcacc accataggaa gccatggata agagcttgaa ggtaagaaaa 120
 gatgaatgga gggagaggga gaaagggagc atgaaattta atgcctctaa agaagtttga 180
 actttgaaag ttaattctca aatgatcaaa gttgaaaaaa tgcacacaca tagcctctat 240
 ttatagccta agtgtcacac aaaattggag ggaaatttga atttctattc aaatcttact 300
 agaaatttga a 311

<210> 2107
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2107

nttgataatg attgaatggt ttgttaatga atataatttg ttggtgtgga ttgtggaaag 60

tatatattga acttcaatgc tagaaaacat aggaaaagga aaaagttagt atccaattgt 120
 . atgtctatga gcacgtgttg caaatatact atgcatccaa ttgacagtcg aataacttgg 180
 gcctcgaatc tcaagtgtgc aaaaatgata taagagttaa ccaataatca ttaagttttg 240
 gaattaaagc caaccattat gcacattaaa aacaatgaca aagaagcaaa catgtacttt 300
 gatgattagg agcctaagat caacggactt ttcacattct gaatcccaaa agaaagattt 360
 tgaattaaac ttgttgtgat aaacttcac ttcaactgtt ccgaatttat taaattgcgt 420
 atgaaaataa agcaaagact acaatattta atata 455

<210> 2108
 <211> 447
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2108

agctnttatg tgaaaggatg tgactcttca tatttgaatt tgaatttcca cgttcaaagg 60
 gactggtaat cgattaccaa aacattgtaa tcgattacag ctttttgaaa ttaattggaa 120
 cgttgtaa at tcaatttgaa aactttttca aatccatttt gctactggta atcgattaca 180
 acaatatggg aatcaattac cagagagtaa aaactctttg gtaaacaatgt tttgagaaaa 240
 accatgtgct attcaatttt tgagaaaaac cttttcatac ttatcttgat taagccttct 300
 cttgattctt gaatcttgag tcttgaatct tgatattgat tcttgagatc ttgaaccttg 360
 aatcttgatt cttgactcta aactttcttc ttgattctta tattgaactc ttgaaatgtt 420
 cttgattcac ttgagttggt ctttgat 447

<210> 2109
 <211> 474
 <212> DNA
 <213> Glycine max
 <400> 2109

ttacggacct taaaactaag cttagacact tggtgaatcg attacatgag gttgtaattt 60
 attaaaacaa agagcttttg tctctgaaga atttttttta acttagaaaa ttttcttcac 120
 acacactatg atgattgtta gttctttggc aagtgtacca aatcgctcgt agtaataatt 180

tctcgataag ccgagtgtcg taccacatgg attttggttac acttatatga agtacttttc 240
 agtttgcaaa ttgtaaattt agtgataaaa attaaagga aatttaaatac taagaaaaac 300
 tcaagcaata aataaagaat aaagtctata aaatattact aaatctaata atcctaaata 360
 cctactccta aataaaatag gggatactac ttctaagaaa acccaacaat aaaataagga 420
 ataactactt ctaagaaacc caacaataaa ataagaaact tcatacaata aaat 474

<210> 2110
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2110

catatggcct tggcatctct gttagatnta catgatctgc taactccatg gatgaacata 60
 caactacact cagacacttc ttagtattcg ggctggtata agataataag ctaatattac 120
 tcctttgagg tacccttttg acggaagttt agatattctc tcaagaaatt aaagaaaaga 180
 aaaagttact gaaaaatgtg gatcacataa ttaatgcac taaaagatat ttataatct 240
 aaagataaaa aaaaatgaca nattattgat gaagtgttag gttctaaaat atgaaatcct 300
 gattacctga acaacataaa taggaaatat taacatgatt atatttccc 349

<210> 2111
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2111

tgtccttaga tggtttacta attctgaatg cnttagattg tgcttttagac ctttttatgc 60
 tatactaatt ctgaatgctt ttagcttgtg cctctgaaat agtgaaatgt gtgcatgaat 120
 tcaaaaaatg gtgtaaaccc atcagtcatt ttaatttact ggctaagaat ctttgaccgt 180
 gtgctaaata tgaaagaaat gaagaagggtg aacggaagct gcaaagtgtg aagtgaatgg 240
 agaaggagat gaaggctaac tatgaaggag aggttgcacg aaggaagaga atatggattt 300
 ctaaaacccc aaattccatt actgngnaaa tatatgtttc tagtcatgtt acatgttagc 360
 aaaacaaatg gaggattaac aaaacttacg catagggagc tgataaagga tccaattaca 420

aaatattata gtttaagaac ctaattatac aaat

454

<210> 2112
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2112

agcttggact cgattgcgcc aactggactg ttcctgtcta ttccgatctt tcaaagtgtg 60
tttgtntttt tgtttttttg ttagattaaa ttaaaatggt ctcttgatta tgcgtgtatg 120
tatgttcgta tgtgtgattg aatttaactt gccaaatttg cctttgggtt cgagtaaate 180
aatgcgttga aattcttttt gaaatctctt ttggtcgtta catgtttgag tgtttttact 240
atttacagtg ctgcaagtta atttcagtga atgtccacgt ttcttataaa ctgttttcta 300
atgactttcc aggagaagtg ctggagatga ggaaaagatg gtgtntctgt attttaatcg 360
tgtaagctgt tcgtcttttg tctgtggtag gaaatttttt aaagaaaggg gtaagggtag 420
tggtacatta tttat 435

<210> 2113
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2113

gggaagcaag tgagatagtc gacaattntc ctaatgaagt tgattaattc tctaacatct 60
ttttattgaa tttcctaate ctaatactga tggctttaat ttaaccatat taaaaaaaca 120
actaaaattt aagcaaatta acctttacat gatcacatca caacaataaa ccacataaga 180
ttttttaatg atgcaacggc tatacttcat ttatacaacc gtgcatcatg cgttgttggg 240
ttatgcgatt tcaagaggaa tcttacacca gtttaaattt agtaatttag aatttctttt 300
ttacgaattt gtcttaactc ttaaccaaag gcaattttta ttttgtggtc cctccctcat 360
attctcttag atgccatgtt cttgagcaga tattgaacgg tgggtgttcat atatatcatc 420
atatatatgc gcagcaagct ntcacattaa cattat 456

<210> 2114

<211> 322
 <212> DNA
 <213> Glycine max

<400> 2114

gcaaaccaat agcagcagaa taattatgac cttttaagaa acagatacaa tccaggttgg 60
 aggaatcatc caaatccgag atggacaagt ctttcacaac aacaacagcc tatccctcct 120
 ttccagaatg gtgctggtcc aagcaagcca tatgttcctc ctccaatgca gcaacagcaa 180
 caacaacaaa gacaacaagc aactgaggcc cctcctcaac ctttcttaga agagttagtg 240
 aggcaaatga ccatccagaa tatgcaattt tagcaagaga caaaagcctc cattcagagt 300
 ctaacaaatc agatggggct ga 322

<210> 2115
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 2115

tagtggacat gaaaagggtg ttgtcaactt aataagtatt atatcaaadc acttatctac 60
 ttttgtggtt ttgttattga caattttatt ttttaattta acaggaagga tattgtgtta 120
 cagttgcaac cactaaaaag ttgttggtag ccaatggatg gagctatgaa ggttgtccaa 180
 atgtaataga aaagctggag acaccacact ttcattcatt tgctaagagt gtaggaatga 240
 aaattcaatg tttaggtgat caatgatata cattgtatct cttttatata ctttaaattcc 300
 ataggttaata taagatgaaa tctatatgaa atactaccat attttgtaag aatttttttt 360
 ctttttttgg aaataacgta tttatattct gcaagacatt ttgtatccaa ttcttgtgag 420
 tttgtatggt tatggatatg ttaagatgga 450

<210> 2116
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 2116

tattccttta ttaatatata tgcgaggggt agaagggtgc acaaattgatg ccattttttt 60
 tttgttggag ctagttgagg aacctggaaa aaggatttga caatcctttt catcaatggt 120

caagccatat cagagattaa ttgtattat agctccacag atagggatca ccaatatata 180
 cttaaaagtt tggttcttta ttccatcacg attagtttgt attatggaac caaacctcca 240
 catgggagac ttcattgatg attgtaaaaa tcacagtacg acttatacta aaacttacct 300
 aatatataat attatTTTTG cggata 326

<210> 2117
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 2117

tgttgacggc ttctcgaga cgcttgagtg atgtattgtg tatgggatgc tccgacatgg 60
 tgtcaccgag catagagcag gttagactag aattgttatg actggactac tatactacga 120
 attaacaagc taagaggtaa tttcttcttg ctgattttac tcaattcact ggtatttata 180
 gacacaacaa tagttgcaag gctaaaaaac cactaattgg ccaactgtgc taataactga 240
 ctagtagtgg agctaacata atttgTTTT gatcactaag aaactctggt agtgggaatta 300
 acagaaattg gtaaaatata tgattgagta tcctaacacc tagcacgaca agaatagcat 360
 aagcaattca cacgaagtcc tgtaatgggc cggtttcttc atattcctct taggcctgct 420
 attgacttgt gccctcttgc tatca 445

<210> 2118
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 2118

atgggaggag ggtatatgcc atttttgctt taaggatagt gtccactgg taaaattaac 60
 tttccaaatg gttgccttcg caggaatggc cccgaagaag cttgcctcaa agaggccaa 120
 gaaagacaag gcggccgaag gaactagttc cgctccggag tacgacagtc accgctttag 180
 gagcgctgta caccaacagc gttcgaagc catcaaggga tggtcgtttc tccgggagcg 240
 acggtccag ctcagggacg acgagtatac tg 272

<210> 2119
 <211> 451
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2119

tgtggtattc annaattgta aacatttgaa gttatttgat gaanagttca ggaaacattt 60
tgcaattttg cagcagtcac tttgttgcat tttttgtgtg aaggaatatt tgtatttttt 120
aactcttatt tttctataca cttttcaaaa ggggagattc tgaatggcca aagctgcaag 180
agaaaccacc tattggatga tgtcaaccta ttcaagaagt taaaaataaa cgaggacaag 240
tcaggcaagt tcggcatttc tcacccttaa ttctaccctt cacatttgge tttgttttct 300
ttagttttct cattaacttt tattgcaatg tgtggtctct tgaccaaaaga tgaacttttc 360
aagccttctc cctcccttc ctaagaaaat tcttttctta tctgtctgca tctgcctcaa 420
cattaacaca tttaatgaac tcttcacaga t 451

<210> 2120

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2120

agcttatcan agaattttgt ctgcggtggt ctttaacaa gaacaaagtg tgtgtaaaat 60
taaagtgaac tttgaaaaag taaacaacaa catcagaagc tgttaaaaaa ctgttnaggc 120
ccgatatcct gaccataaaa agtaaacaaa ctccaaaatg aatcacaaa tccattacca 180
gatttaaacc atgacaagtg tcacgtccta tgaaatatag gtttgaaata taattntttt 240
agtcagnttt cttattatat tttctttttt tacatctaaa ataaaaataa attttaattt 300
taagtattaa actagtaatt ttgtggaaat tattatttat taaatatttc taacataaat 360
atttaaataa ttttttttaa aaaatgagtt tctttcaata gatttccgga tctgtcccga 420
attaaaaata ca 432

<210> 2121

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2121

tccattggtg tcttgaaacc taaggctgat gaaggacatc tattaatcaa atatgttggt 60
 gtgtttgcag cttctcccca aaaagccttt ggcagtcctg cacttagaag catgcacctt 120
 actctttcca aaatggctct gttcattctt tctgccaac cattctgttg tggagtgtga 180
 gggactgttt tgtgcctttt gatgcctatt ttcctgcaaa actcattgaa ctgctctgaa 240
 acaaactcca ggccattgtc agttcttaaa acttttaatt ttgtaccaag ttgatttcca 300
 acaagagtat gtcattctct gaatttttga aaagcttccg acttattttt canaacatac 360
 agccatactc ttcttgagaa atcatctatg atgggtgagaa agtatgagct tccaccatga 420
 gttttcactc tagatg 436

<210> 2122
 <211> 359
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2122

agcttgctct anatttacat tgatgtttgt atttatggga ggaggttgta tgccattttt 60
 gttttaagag tagtgtccca ctggtaaaac taactttcca aatgtttgcc ttcgcaggaa 120
 atggccccga ggaagcttgc ctcanagagg tccaggaagg acaaggcagc cgaaggaact 180
 agttccgctc cggagtatga cagtcaccgc tttaggagcg ctgtacacca gcagcgcttc 240
 gaggccatca agggatggtc gtttctccgg gagcgacgcg tccagctcag ggacgacgag 300
 tatgctgatt tccaggagga aatagggcgc cggcgggtggg catcactggt tacttccat 359

<210> 2123
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2123

ctggaaaatg ttgtntttca ccttctcgct aagccaatct gctggcttag ggagcgctccg 60
 ctaagcgcaa cattcatggg ctaaacgcga ggaagactct ggaagaagat gagttgtaca 120
 ggttcgctaa gcgcaccact tcattctcact aagcgcaccg cttcagttca tccgctaagt 180
 gagaaaggca cttgctaagc caaaattcac taatgtgcgc taagcgggtcc ataattgcgc 240

<210> 2126
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2126

agcttgagat gaggaagtgt tgaaggggtga aacttcctgc ttttattggt gaccacagag 60
 tgggtacctgg agatatgtcg cggngggtcag gagaccttgg ggacgtcagg tgggggtgcta 120
 ttgccccaaaa ccaagcttga ccaatcccga cccaaccggg gcatagtcgg tcagtggagaa 180
 cctgtgatgt acctaaacag gcgagctcct agcagtcaac agataaaagg aacaaagacc 240
 acaaagcaag gaggcttgtg gtggctggct agctgtgaaa cttgattgat atgtgagata 300
 tgggtctctgg taatcgatta ccaaggggtgg gtaatcgatt acaaggctta naaatgaaga 360
 caggaggcta agatgggtctc tggtaaactg ataccacggn gtgtaatcga ttac 414

<210> 2127
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2127

tcggtactct atttaaatnt acaatagggt ttaatatata tattagtttg ctactaaaaa 60
 aattatctag ttaaaaatta taaattacac aaaataaaat ataaaatcat atatataaaa 120
 agttttatttg taaataatgt ttggagtgga gtagcccaaa tttggggtag cccaacacac 180
 tttttgtaat acctctagtt ttcgacttct cagtgggtca cacactacta cacttcacgt 240
 ggtgatactt tactgaactg ctcgttggtc ataaccctcc cactgggtcag aatcctctat 300
 aggtaactct tttcgagacc tcgataatca tcccttactg ctttcaggat caatgactat 360
 cccacaaaac caacacaaga tttntagca tactttgtcc tcactcacac aca 413

<210> 2128
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 2128

actaagctat gctgctacat ttatataaac ctccacagca gcatatcctt tatcagataa 60
 ataattatga cctttcaagc aacagatata atccatgttg aaggaatcat ccaaattctga 120
 gatggacaag tcctccacaa caacaacagc ctgtccctcc tttctagaat gttgctggtc 180
 caagcaagcc atatgttcct ccttcaatgc agcaatatca acagcatcaa caaagacaac 240
 aagcagttga ggctcctcct caaccttcct tagaagagtt agtgaggcaa ataaccatcc 300
 agaatatgca atttcagcaa gagataagag cctccattca gagtctgaca aataagatgg 360
 ggcagatggc tactcagatg aaccaagccc agtcccaaca ttctaacaaa tagtcttcac 420
 aaactgtgca gaatctgaaa aatgtgagtg ccatcacct 459

<210> 2129
 <211> 333
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2129

aagatatggg cctgcctatc tgatcttcta tgctttaata ggtggaaaga agaattgagt 60
 tcaagaggaa cctcactctt atgatgaggt cataagcaac aaggacaatt caaaatggat 120
 tgaagctatg gaagaagaaa tgtcttttct aaaaaagaat tgtcctaaag ggcagtaaatt 180
 tgttgatgc agatggctat tcaagaggaa agaaggtttt gaaggagttc aaagtgttaag 240
 gttcaaagct aggctagtag cctgtgggtt tactcaaaag gaaggagtag attntgtaga 300
 aatcttctca cctatggtaa aacatagttc aat 333

<210> 2130
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2130

tcttggtggt tntgcgtggt catgtgaaac aagggcaatt ttgtataaga gaagttttct 60
 tcgataagtt aaattaaata aatatattat aaccaaattat gttgacaagt gtcactaatc 120
 aatatttcaa aagatgtttc gggtaccttt ggtcttttgt ggtagatttt agcttcagta 180
 tttaaattatt attaacggtg ataactttaa accaattgaa ggaatattat gaatcatctt 240

aaaaggataa aacaactaaa ataaattctt aaaagaaacg atcaaataaa aaaaataaga 300
 taaaaaataa aataatcatt tagtcaaata tagaatacgt ggaaagtaat attcaaacat 360
 ttcattggatg ttcgattcga tttctcttan ataatcgatt attttcatta atatcatgaa 420
 aattaaaaaa aatacaatta tctttataaa tntatg 456

<210> 2131
 <211> 390
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2131

cctgcggcat gcaagcttct ataaaggaag tttattaagt ntcccatcat tggaggaatt 60
 tgtcagaatc tcttgcgagt ggatggaaac attatgtcca ggtaccctaa aagcagacaa 120
 gttggttcaa gttcaacttg aaccaaattg gaggcactta gatcatatac aacaacatcg 180
 ccttatctta ctaagtgggg tcggcgactg gcactcaaat cctatcaaat tggaaaatga 240
 cctgaactct accatgcggg aggcatttag ggaaaaggta tgttttcaat tattttgatt 300
 agatatgatt gatattgggtg tatgttgggtg ttataatgca aaatatacac cgctaattag 360
 gttaattaga ttcattctca aattaacttt 390

<210> 2132
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2132

tctgagctnt gataattctt taagtttcaa acaattgaga tgctgaaata ttatctcatt 60
 ctctgatttc atcccccttc ttagacacta tctcttcaat ttaatcacac caacttatct 120
 caattgtttt gagttgacct aaacttttgg gtgttgagga tgtgaacaaa tatagcagtg 180
 ttgcaatttt ttacttccaa aaatgtcaaa ttcgagaagg gcactgtgca tggttccaaa 240
 ttatgcaaca ctccgctttt atgaaaattc gtagcattat tcttcgaata atacaccaca 300
 acctattcat aaattctctc attctatttc atcccccttg ttaaagatga tggaacacaa 360
 gacttaccca aaataaaata aaacatgccg gaatagttga attggatacc tttaaactaa 420

aagtctaaaa cataaccttt tgtgtttgtg tgttg

455

<210> 2133
<211> 339
<212> DNA
<213> Glycine max

<400> 2133

gcccataagg catcatccaa cttcacaacc aatccttcct tgaggatgca acaatattct 60
ccagaatttt cttcaattct ttggtggata cctcggcctg gccatttttc tgaggatgat 120
aagggtgaaac taccttacgt ttgacattat aatgcccaat accttctaca actatctatt 180
gcagaaatgt gaaccctatc actgattatc actctggaga ccccgaagcg ggagaaaatg 240
tttctcttca ggaatttgat gacaatcttg gcatcattct ttgaggcaac cacaacttcc 300
accacttgg acacttaatc aacaaccacc aagatgtac 339

<210> 2134
<211> 442
<212> DNA
<213> Glycine max

<400> 2134

ctcagcttaa taatcctgag ctggagtgag ccatggatcc caagttccct gtgccgtagt 60
gacggctact acataatcat cgtcaatatc tgcctttgct gcgcctgaaa ctccttcctc 120
agcagcctcc actggtgtgt cctgagcctc tgcctctgcc tttgggggat ccttagcctc 180
cccagcctct ggagtgtctt cagcggcctg tgtttgtggc tcttgggcca caagagcctc 240
acccccccaa aaggaaggct ggactccaga ccaagctacc tgtgccaaga agtcctccat 300
gctcatgata agccgctgct gagataaatt ctgcatactc tgcataacca ggaaaaggctc 360
gtgatgaatg cttttagtagca tgggcacgat agcagcactg ctaggtacga aggggccggt 420
tggagctgaa ataggtgtgg ga 442

<210> 2135
<211> 461
<212> DNA
<213> Glycine max

<400> 2135

cttagagcca cctgcctgca tgcaagctcg cctcaaagag atctaggaag gataaatgcg 60
 gtgaaggaac cagttccgct cccgaatatg acagcctcca ttttaggagc gctgagcacc 120
 agcagcgctt cgaggccatc aagggatggg catttctccg ggagcgacgc gttcagctca 180
 gggacgacga gtataccac tttcaggagg agatagtctg ccggcggttg gcatcactgg 240
 ttacccccat ggccaagttc gaccagaca tagtcctcga attttatgct aatgcttggc 300
 ctacagagga gggcggtgca gatatgcat cctgggtgag gggtcagtgg atcccgttcg 360
 atgcagatgc tctcagccag ttctgggat accctttagt gctggaggag ggccaggaat 420
 gtgagtatgg ccagaggagg aaccggtccg atgggttcga t 461

<210> 2136
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2136

tctacatgtc tagggttttc tagagagaga aagggtccatg ttccatagag tttgaaagat 60
 tttgctgtgt gaagacctgc agagaaccga gcttgaagag gaagctgtcc tgagagcttg 120
 agatgagttt gtgagtgatt gtgaggttct aaagggtggag gagacatcct taccacttgt 180
 atttcttcaa tccttcatgt ttctcttctc tttgttgcaa aggaagtttc ccagttatgg 240
 agagctaaat cctttgttgg ntcttccttg taggtacttg gtgtaaatac ctgtatatct 300
 atttaatgat gctttgtgtg ttcactgtgc tatcaaaact tcattctacc atgcttttgc 360
 cttgatcacg tagatgcatg tgtttttagg atcattcatc agtggaaact ggtctgattc 420
 ttagaacttg ataggacggc gctagtttat cata 454

<210> 2137
 <211> 271
 <212> DNA
 <213> Glycine max
 <400> 2137

agctttgagt aataatttt ccatcaatct ctgaaattta gaatgaaatg tatgaatgag 60
 gactgttagt cagcgaatac cactaacttt tgtgataaaa cttgtgtaaa ttgtatcaaa 120

ctcttccaat ttatggttat ttgtagtgt tataagtatt ttctgttaa tataggtaat 180
 aaatacttag tacttccatt ttgtgtgga ataatcattt tctctcattt caggttaatt 240
 aggcaagctt tgaaaagtgc taattttcac c 271

<210> 2138
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2138

tcattcagat ggattaaaag gctcaatggt cacatgtctt tcatgattgg gtcacgattc 60
 tcatgccttt catgataata gtagataagc ctatgttgta tcaaaaggct aactgctata 120
 agggcaacga gattcttatt gaagatgatg tgtagatgct cctccaatta gataagagag 180
 cttgtcttgg aaggttggtc aaacataagc ttgaatctct taagcagaaa attgagcaca 240
 ctagtatgga ttggtgtggt ataaagaggt tctataaact gaaagctcac tattaagggtc 300
 tggaaccatt tatgttgtaa ggcgtttatc atgcagaaag cgtttatcac gcagtaaggc 360
 gttattatca tactctaaac catttatgct ctactgagga gatttctttc aacatgggtt 420
 gcccatggac tanggagttt catg 444

<210> 2139
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2139

caagctacnc ttcaatctgc ctatacatat attaatatgc aactactcca cagncaccga 60
 ttcaaaattg gggatcagtg gggtcctttg acttcaatct tttggtgatg attgaaatgc 120
 aaattcgcaa tcatcaaagt tatcacctga ccaaagaatg gggccatgca cctagatctt 180
 aattcaggac ggatgtaatc agttcaagac ttcaaatacg ttctagtatt tgaaagttag 240
 attagacgtg catgtccatc acatgttaga acatagtttt caggtaagga aacaaattan 300
 aacaaatctt gtgcgaatct taatgaatat gaagccgggt ttctacgggc attagtggac 360
 attccgtagt cggcacctta ttacttttt gaaatttggg ttcactttta t 411

<210> 2140
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 2140

tgCGaattgc tgctggtctg ataacaacat caattctatg tttttatttg caattcctcc 60
 cattacgcga atggcactct cacgtgatac ttggataacc gtattatgca gaaaattgag 120
 agattggtgg caatgggtaa ttaaacattt ttttaaaagc aaagcacgct gataattcag 180
 aattcagaat aatataacat tttgcagttt caagagctaa tatgaaaatg gaattcaa 240
 gcaggttgct gatggggatc ttcctattgt tgcttcacat gggtaagtaa tcagttagtc 300
 ttgcaatatc taaaatccac tttatgtgtt taccaagtct catgttatgc tgatatggca 360
 gaatggaggt tgaagtatat aaatcacttg atccaggggt tcgtgtgggc atcttaaaag 420
 cattatgtga cattcgt 437

<210> 2141
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2141

agctttctcaa gcaagctttc attaagtggg atatagcaca agagcttcaa gtaggtgctc 60
 tttaaacatc cattaattnt cagctttacc ttctcctgca ttgttgnttc ttcataatttc 120
 tccatgtatc tcctcacatg tctagtgttg aatgttggtt acaatgaatt ttagaatttc 180
 caccgattaa acttgctata gaagctagat ttgattttct atgattcaaa tttcttggtc 240
 ttgctcttga atcatgaatt gtgttgagtt tagattcctt tgagttttgt attgttattc 300
 gttctggctg aaacctaacc catataattc ttacagaaac attaaagtat aagacaacct 360
 canaaatcta gagtgcacatg ttcactatt atagttntgt cgtagacgct atgtctagtc 420
 atgaaac 427

<210> 2142
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 2142

tgagtgagag agtgcaagtg ggttcgaggg tcacatctgt taacacaaag gcaaacacac 60
ttttaagcag aaattctatg agggtcatag aaagtcgaac agaaatataa aactaagcga 120
ggtttgaggg agtcattgaa ttcaaaccct cgagggaatc cacaacttgg acaaagatga 180
acgtaagtaa ataagaaggt tacactcgat tgatacgaag ctaattaatg attttgggaa 240
taataagtaa gattattcaa agacggtctt atataaaaat cgtctttgta ctagcaatac 300
aattatgacg gggtttgtca acctgggtcgt gtactccttg ttcaaagggt aaactcacta 360
ttgaaaatgg atattcaata atacgcatca tatacattcg ttaaagtag tacactatca 420
ccacctata 429

<210> 2143

<211> 278

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2143

acacatgctt ctatttatag actaggtagg cttcttgaga agctntctta agaaaacttc 60
cttgagaagc ttctttgaga aaaattcctt gagaagctag agtttagcta cacacaccca 120
tctaaaaact aagctcacct ncttgagaag cttccttgag aagctagagc ttagctacac 180
accctataa tagctaagct ccccccggtg acaanaaac atgaaaatac aaaaaaatc 240
ctactacaaa gactactcan aatgccctaa aatacaag 278

<210> 2144

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2144

ntctcccaag tcctaaatga catttcaagc tagtattaac tcactntaac ctccatttac 60
cacagaattc agacttaacc ttccaactct caaagcctca ctctttttcc actcataaca 120
tcacattctc actttctaac cctagggttaa ctctaccatt catctctaac agttttccat 180
aagcaatttc agcatataaa catcacaaac atcatcacia aaaccctaaa acagaatggg 240

tatatctaac tcatccaaac atggcaatth caacaagctt tcaacaaatg tcttcacaaa 300
 taatcatcac acagcagaaa cctagcaaga ctacccatca tatctcccca aaccccatat 360
 ccacgaaaat taaaggagaa agaagtccac ccaaactga attttcgaag tcccactcgt 420
 agccacgcac ttca 434

<210> 2145
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2145

agcttcggga gttgtattta cgcattggga aggtattagc accccacacg tctgtcacia 60
 gggacgacag cctttaatca aatgtgcaaa catgacttca atttttatgt tcccttttac 120
 gtctttattt ctttttgtac tttttatatt tttatctttt tgtggncgac gaggggtgttt 180
 cccttgctcc tacgtattcc tcaattgtga taaggaaatc agacctacgt agttcttttg 240
 tgaacaaagc gttttgggta agttattttt ttatcctttt ttgcaagata tgttnttatt 300
 gaatgaaagg tcatttaagg cgttggaaca ttaacaatc tttcgtttct ttttaanaagt 360
 gagaaaacat taaggcattg gaccattaat gatttcttta tttttgaaag aagtacacag 420
 gtacatatcg attt 434

<210> 2146
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2146

tactgaatt gctggtctta ttgaagaaca tgcttctctg atcaaaacac ttttccgaan 60
 aatcactacg aggccaaaaa gattttgtgt ccagtgggaa tggagtacaa gaagatccat 120
 gcatgcccta atgattgcat attgtataga aatgagtatg cagaactacg gcaatgcccc 180
 acgtgtgggg tatcatgata caaagtgcaa catgatgaat taactgatga tgcaggaacc 240
 aaaaattgtc gtcctgccaa ggtgtgttgg tatcttccaa taataccaag gtttaagcga 300
 ttgtttgcta atacacatga tgcaaaaaac ctttcatggc attcggatga ccgaaaatct 360

gatggattac tgtgacatcc tgccgattcg ccgcagtgga agacaattga tc

412

<210> 2147
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2147

agcttatgcg gcattntcta catgagtatg actttgtttg cnttatttca atatatattt 60
atgttaaatt atagctttta attaagcaca aagctaacat gcttggtgaa ggtgttttca 120
caatatacca aatgacatgc tatgccttta tcacccgtct ttttcaatat gttcgtgagt 180
ttgaataaat tccacaatgt gttttatgta taaagtaact actatcaata tcaaagaggt 240
aataaaaatt aatgggacac attttggtat gttccatagt taaaactagt gttacttata 300
tctgccccaa aatagtgcaa tgtcttgagt atctattcca actttgctat acaatgtact 360
tgtattgaat ttgccacttt catattcttt gaagccataa ttttatgtgc ctcttaatat 420
ttc 423

<210> 2148
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2148

ncgcttcgtg accaggtggt ctctgtaata gaagagacat ttggctataa gcctgtgctt 60
gtttggagag atcgtcataa atgattaaag tgtgacgttc atggtacata aaatattcaa 120
ccagagctac tcctgtctaa ggggcgaagt attataatgt agttggagaa tccactgttt 180
cagctactac aatagtgtat tccattgctc ctcttttttg taaggatttc accacttgag 240
ccacaaaaga tgctttttga ccaatagcta cataaatata tattacattt tgtccctggt 300
gactgagaat agtatctgtg gctactactg tttaacctgt ttgtctatct ccaataatta 360
gttctcgttg gccacgtcct atggggatca tcgaatcaat aaaataagtc ctgttgagga 420
agctcatata tggaacgtct cgaatan 447

<210> 2149
 <211> 273
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2149

catggggaat gcagcaatag gtggtgttat tccgtgttaa aatcggaaga tgcttcatta 60
 ctcaagctaa actttgagcc attgtgcttg gcattcaagt tgaaatatcc agaggcttta 120
 ctgagttatt agtggaaatgt gattcaaagt ttgctatttc tctcattcga gatgggtgtc 180
 cttctacaca cttatgttat caggggggttg caataatcaa tatattcgtg aatgatggcg 240
 gagtnttccc tcgatccctt ttttagtcag gca 273

<210> 2150
 <211> 457
 <212> DNA
 <213> Glycine max

<400> 2150

ctcagcttct tatccaggct catcttggtg gtgaagctcc ttcttctatg gcttattctc 60
 tagtggatgg cacctcctct cacctcttct catttgtctt ccgctgcac tccatgggtg 120
 aaaatcacca ttaaaggacc taattgaagc tcaaagatcc agcctccata gaagccacac 180
 aagcaagctt ccatcaagt gtaatcagag cacaagagct tcaagtaggt gtccttaaa 240
 cctccattaa tttttttgct ttaccttctc ttccattggt gtttcttcat ttttcaccat 300
 gtatctctc acatatcttg tgctaaatgt tgtaacatg attctttaga gtttccaccg 360
 attaaacttg ctatagaagc tagatttgat tttctatggt tcaaatttct tgttcttggt 420
 cttgaaccat gaattgtgtt gagtttaggt tcctttg 457

<210> 2151
 <211> 241
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2151

atgaattcca cccctacaa ccacaattcc agcatgaatg gtggaccttg catgtggaca 60
 actcctctaa tcaacatgga agtggagcta ggataatttt gaagggaccc aaccacataa 120

ctttaggata atcactacac tttagattntc aaagccagat gtaatcaggt caaatacaaa 180
gctcacctag aaagcttaag attggctaaa gaagttggag gtcgtanggt taactaccaa 240
a 241

<210> 2152
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2152

ntgcgagatt cctcacggaa aacgttacgg aaacgtttct gaagcgctc ggcttagatt 60
ttcttcacgg aaacaatttt tccaagcaaa ttcgaaagag agagaagtgc ctaaggggct 120
ggaccctttt cttcttcaact tctctcccta tttatagcaa aataggggag gtggttgccg 180
cccagctcgc ccaggcgagc tcagctcgcc caggcgagca gggttgcttc ctccagaagc 240
aaccgccttc tggaggaatc ttctggaggg cccaaatggg cctgggtgct atttgcaccc 300
ccatttttac taagtacacc cccctctgct attttttggg gattcttttt tcgtaaagtt 360
acggaaactt acgaatttcg taacgatact tgttttcttt ccgtaatgtt acggaacctt 420
gcggtattaca taatcatccc ctttntgact tac 453

<210> 2153
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2153

gattacatag agggtttcag ggacttagct ttgatttaca ttntgaattt catccaaatt 60
tttgacaagt cattgttact tccatcaata ttgatattgg atcatgctta attatatgcy 120
tttgcttatt ctgatcattg tgtgttgggt gattatttct tccatgcagg tacatgatc 180
ctatttggtg tgagagtga atgatgggca gcagcaccaa ctgaggtgag tgtatatttc 240
cttttttttt tgtctttatc tttgctagtt tgctatatat tttttatttt atatgtttga 300
gttttaaatg tgtaaaaaat agaaatagaa aggtttgcta tcattctttg aatgccatca 360
tctaccttta atgattgaca tctaaattgg tccctgttta atcgaattaa ttagttat 418

<210> 2154
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2154

ngtctctaca gaagaaagaa acaaaaataa gagtagattc attgtagata attctttgca 60
 gtgatcaaga ataattatga accaaccaat caatcaacaa gcataaattg aaaattgggc 120
 ccacattcta aaaatgggtca tctcagtgtc tcaaaaaaat ttctcaaaag aaatagaaag 180
 tacaaaatca tacataaaag cttagaagca aagtttgagg gttttatctt acttttgata 240
 tcctgtgtcc acacctttgc tggggatgaa ccaatttctt catctcccag agtgttattc 300
 caattggcac tttctttctt caaatgacca agctcgctca acaaatttc aacattgatg 360
 taatggcatt ccctccgagt cttccagaaa aggagttcca caaacaagag ggggtgcttt 420
 ttcattntct ttagcatctt tctgaccaa caagt 455

<210> 2155
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2155

gcttctgtca gccagcttt gcctcttggt attgttacga ttgctgagat gtgtgctgca 60
 cgtatcaaac aaatccatgg aactgatca cttgatttgc cactaatttt gaaagaaggt 120
 cgtcatgact cattcattct tcacgaaacc acctccttca gccacctggc agtttatcat 180
 caactgtggg ggtcccgtc ttcaattttt aagggtgtcaa atgctgatca aacatcacac 240
 taattaatta attactactc gagtcgattg ctataaccta attggcgggtg tttaaagtgt 300
 ggaagcaagg gtattgaaac ttgattcatt tatatcctca acaaataaac ttcccatcaa 360
 attaaaaaga anataatata ttttacacca aanaagaaaa ggaagggaca acgtatgagt 420
 ttgagcagta tcatcaattt cattca 446

<210> 2156
 <211> 473

<212> DNA
<213> Glycine max

<400> 2156

cggacctatg atactcagct tgattaatat gctaattgaa atagtgtggt tataagttat 60
tattcaatgt tttttctatt aatttcaaaa agtggcattt ttttaccatc aaactaatat 120
cttcatttaa cttttctttt tttatgaaat atactttaca taataataat aatgaaggtc 180
gattgtatta tctaaagaga ttgtttgggt gaaaaaagaa gataataatt atgtttttac 240
attttcaaaa acataaatat ccagggaata gtttatttat ttatttattt attaaaaacc 300
taaaataaca ataatgagat gaaaactggc ttcatttttg gctataagta tgtggcagca 360
gcagaggcaa taaagttagg aaagcccttg gacccttcct gcttctgtt tggaatttgg 420
ataccttact cggccgacag tgggtattcat ttattactcg atagaattat tat 473

<210> 2157
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2157

catgcaagct tgagagctat tcttcgagga ggctngatta aagataagggt ataaataggg 60
agggcagtga ggacagaatt gatgagagta acctttccag ccatggataa nattttctgg 120
ttccatttag acaatttatc ttcatttttc ctgatcagcg gttccacac catgctgttg 180
gtggactttt cccaatggg aatgccaga taatagaaag gaatctccat atgtctatag 240
ttcaaaaatt ctgctgctc atgaatccag ttgacctcag ctccaaagat cccaacttga 300
ctttttgcaa agttaatctt caatctagat gccaatcag aaccctcag catagacttc 360
aaagcaataa cattatcca tgaaacatgc ccacaaata ct 402

<210> 2158
<211> 411
<212> DNA
<213> Glycine max

<400> 2158

catgtgtggc ctcatgagt gcttgcgcaa tagccttggc ttgattcttg ttgatgctgt 60

cctaattcac aagcatatTTT ggaaatgaac tatgcaatat tgatcttata aactttctagc 120
 caaatggact taccttgaat taaattcttt gatagcccct ttgagcctat gctccccctt 180
 ctttgttctg aagctcatta caagccttca gtgaaaaacc atgatatcac cttaccctta 240
 aagaactttg gagctttgga attatcttgg gaactagatg ggactaagtg cggcggaggg 300
 tatgtttcat tgcaagatat acaatgtggc catgcttaac gttatatttt ggccatgctt 360
 gatgtactat gatatcgact agatcttgct ttaatcgta atggacgact g 411

<210> 2159
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 2159

aaagccatat cttgaggatc ataaaaaaag actttaccta gcttattttc aattggcaaa 60
 tatgactatg ctctattcac ttatatttca gaattctctt tcgaaaaaaaa aaaaatgata 120
 gtgaaatcac gaaatactaa catgaagaga taatgtagaa gtaattttgc tcaatttctt 180
 atcatatact tacgaattcg gaaacagtct tgttgcatat gcacgggtaa aggttatgta 240
 caatgaacct cctccatacc tttgcatata ccagttttat accaattgat tttgcatgaa 300
 cggatttcat ccattagtta attaccaaac tatgggctat atatgaaata tgtgaaaagc 360
 t 361

<210> 2160
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2160

tatctgccaa tccttgtggn gggactctac tgccctcttt atattgttcc ctcagtccac 60
 acatctggtg gtttgctttg catgtggaac aactcagttt ttgaggtgga taggagggcg 120
 aaaggtacaa atttcttaat gcttgatggg aggtgggcta aggataatca gacgctgtac 180
 attgttaatg tatacgcccc ttgtgacctt gctgggaaga gagttatgtg ggaagaattg 240
 aggcagttaa aggtttctaa ccctgatgga ctatggcgct tccttgagga tttcaacagc 300
 atcacatgtc acgaagaagg aattggttca tcccaaagga atgctgacac ctatgacatc 360

tctgctttca atgactggat atctgacata tagcttcaag aaattaaatg ctttggttagc 420
aggtttact 429

<210> 2161
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2161

agctnngngcg ttgacttata aactaanatt ttaggcttga atattngngc attagcataa 60
gactgaaact agtatagtca taaacatgta ccacatggaa gggtatcttc aagtttactt 120
actactatct tcgaagtcta ttgaagcctt agccaactta gttgcccaca aggctaaagc 180
cataatagta gatactagtc aacgtgatca ttgaccttgc catctcctcc accagaaggg 240
tgtcctagct ccctgtgaat gaggaggtgt aagagtatca agcattgttt ccttctcttt 300
tgggggtcaat ggaacacctc taacaagggg taaagccatg atatggacat tagtcttttg 360
tttatgcctg ttgtaagccc atactcctgc agctgacctg ca 402

<210> 2162
<211> 446
<212> DNA
<213> Glycine max

<400> 2162

tgaactctag tgtgtgtgtg tgatgtgtgc aagggtttcca tcttgtaaga gttatgtaca 60
cttaggggtgc gtttgaccta ttcaactctc cccttctctt tattttttat tgtattgctt 120
tggaatgtgt aaaacctccg tccagtcacg ctgaaacggg tttccaaaca cacacttacc 180
cactaacaag tgatatagtt tcttgagtgt aagtctaatt tagttaatac agatcaaatt 240
tcattttctt ccattatata gtttcaaac aattgtgttg acgtacacac ttgaatccaa 300
aaacaattgt attgacgcat tcttacgtgt atctttgaaa gggaaataaa gagatccgtc 360
aacactgagg acgcgttcgg caacggagat atctttttat atttgaaaaa taccatttgt 420
gagacagtct atctatcgga atcttg 446

<210> 2163

<211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2163

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agctntaaag gaaatctata ttngnctctt gtcctatntt ccttgcaatg gaattttgtt 60
ggattgctgc tcaactccttt gagtattttg caattggtat ctctatttag atattttctg 120
agagaagagg tcaatggaag gcagcagctc aatcccagga atttattcga acactacagc 180
gttattataa caacacatat ttagatgggtg ataagcaaaa agcaattaac ttgtaagtca 240
aataagccaa ttttttattt gtattttacaa ctgttttcat atgtaatatg gtttacagca 300
aacacaagtt atgtatatat gtgattgcat tataatgatt tactaattgg tgggtctgat 360
tttgtttggg tcacactc 378
  
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<210> 2164
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 2164

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tcaacgcaga taatcacttc ctaacattac gcagggttat acttatattg gttcaaaat 60
catcaactta tcatttaaca ataactaatg ttttgcatta aagaaatgca cactgcacaa 120
tatcatcggg atttcagaga aatggtgaac aacaaggaat gacttaacca aattatagtg 180
atataggaat atctctaact tgcatttaca aaccctatag atactcacta tattaaccta 240
tacattatct gcatggatag gcagtctgcg cctgttcatg aaagtttaca aataaaaaag 300
accatcaact gatccaatat atgtcatttg atgatagacc atctgggttat aataattcta 360
tttgacaaca aaatactaca tattaacat aggttacaca aactaacact agcacaaaat 420
aagcttaaata ttcaaagt 438
  
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<210> 2165
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2165

agcttgtgtg atgaatataa acgaactaga tacaaccccc atatgtttga ctntcttctt 60
tcgtggatca agatgacacc accatattac ggtcttgcta ggctgtcga gatntatcaa 120
gtgttgtcca attttcatgt ccagtcggag gattntaagg agactttacc tgctgccaag 180
tcacctatga ccgtgctcac ggtaactcgc actttcccat tagggactag atgtcctcta 240
gtgctagaga ttgctgtgaa acaggggtaca tcgtctgaag tagggattcg agcttattat 300
ttgaaggacc aaaaggatcc agagctgatg gaggaggaca cagaggagac tcctaacggc 360
gatcttgcta ggagttcagt gtagtttgat tgtttgagtt tgatgggtta gacagtgcgg 420
tacaatgg 428

<210> 2166
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2166

tgtaggatta tggggtaccc atcacatgtg gtactaggtg tcggtcgggc gatggtgcac 60
aacaagtttt ccaaaccac aatgcgcgca taaaccacc atccccgtga gccacactcc 120
aactgagctc acgtactccc acgtagccca tatectcgtt tctctcaaca ccgggtcccc 180
atcaatcctc ccaaacttcc ccaacatcaa agcaatacaa cattcaaaca gcaaaaacta 240
tcacagccaa gaaaacagag caaaggcaga aaactctgcc aaaacaccaa ccaaatcac 300
agcttttctc acttaaagac cccagtaaca attccttcgt tccaattcgt taaccgttgg 360
atcgactcca aatttttact ggaagtctct agtacataag cctacattnt gaccgttggg 420
atctactagc aaacatccag aactcattct gcactg 456

<210> 2167
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2167

agctntgacc aaacccagc agcagttggt ttcttagaga cttgcctcag caccttgtct 60
ctgagattaa ggataattgc attgtgttcc ttctgcaata gtgctttctt atccccatca 120

gccatcatct tttcgagttt ggcttctcca tcaagtgtt ccaccaggcc ctgctgaaca 180
 agaaaagctc tcattctcaa tcgccataac ccanaatcat tttgccctgt gaatttttca 240
 acctcact tggccgagcc catttcttga atcgaactca aaatcgatcc acactcaccg 300
 caccaatttg ttgtgccaag atcagatttt acttcacaaa agaattgagtt tcttgatga 360
 acaagaataa gcaaaatgca gaaaaatgaa ccataaactg cacagaactc acaacagtca 420

<210> 2168
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2168

tgctcaagat tccttattga atttgcaagt tttttgacca atgaatattt tgaaagttat 60
 aagacaattt ggttttgaga ggataagaca atgttggtca gaaaaactct aaggaatttc 120
 gtgtcccaag tcacctattt ataggccttt gatgggtcatt caaaagctnt ctgaacagtt 180
 gtgactcttg ggagttattt ttgaaaattc cttactggta atcgattaca taactgttgt 240
 aatcgattac acagttagtt tttgaagagt tgtgactctt caaacttgaa atttgaattt 300
 ttatgtctgg taatcgatta cacaaatggg gtaatcgatt acaggctttt aaaattttaa 360
 tttaaatttc taanagttgg tacaaatagt ttaaact 397

<210> 2169
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2169

agcttatcat taanataaat ctaaattggnt gatgatgcca tgatctatat ctttcaattt 60
 ttgtatgatt acttctatga tatgtctaaa aagatttgat tgattgctca tgattttcaa 120
 aactattata ttctattttc aaataaaatt attttgatat attaaaactt tctatgttaa 180
 acaaaaattc atcttggtaa gtgttgatat tttttttaca cttagttttt agaaaaaagt 240
 gtctagtaat cgattacctt cacatgtaat cgatacaggc agttagggtta agtgaatcg 300
 attacaacat tccttgaatc gattacagag tgtctgtgtc tataaatcaa aatttcagaa 360

attgcgagaa cgcgatttct ccacaacacg accctaaaat tctaaactta gaactcgatt 420

<210> 2170
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2170

ctntaggggt tccaaactgt gttgtcactg caattatggt cagattagct tcatttattt 60
ataatttttc atttcaaatt tacaattgtg accactatit aatttctcaa ttggagtga 120
tattttaaatt tttctagtaa agatattcgt gatctcatgc atcatgattg gaacatcttc 180
ttccagcata tttatagaaa aagaaatcag tgcgttggtt ggcttgctaa acatgaagcc 240
acatctaattg atagtttcaa gtttttgagt gtttgaaett cccctcttgc ctccgtgtgt 300
ttggtagatg ctacgagggt cttaaagttt tctgtttctg ttttgtttcc tcctttccta 360
tgtgtatata taaaaaaaaa gttggttgag ggactatagt ttcagcactt ctcaattttt 420
aaactataag ttttgaactt 440

<210> 2171
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2171

agctntanac aagaatatat aacaagacat tatgaacaac tgtggcagtg aacttcccgt 60
ttacatgatg ataaaagtat tgaagagaaa ataagacaaa aattcgaaga caataaacag 120
gtaataatga actaaccaaa atgaaaaaaaa aaaaatgatg aatgaacaaa atagagagct 180
gaggttgggc ttcggggcct tgcagatgca aagaagatgg tgctaagcca gcagctgagt 240
ctgtgatttg gttaacgaga tggtagtata catgggggaat aggttgcatg atcagtgact 300
gagaggggca gactcgagat ttaatgattc gggccaaata tgaaaattaa aatttattta 360
ataaatatat taattagcat cagaattcat atattatgta ttttaattatg tgttcttcaa 420
a 421

<210> 2172

<211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2172

ntactttgtg ctgcatcgct acatgaatac tttatgtttg ataacaatat atacatttca 60
 atgtattaaa aaatattgct tatgtttctc acctacacat atcgctcctt attgggttaca 120
 ggtaatacta tttgagaggc attggaaggc aacgcacatt tctctgggtg ttgcttcagt 180
 gaagatacat tcatacagtt ttttaagctag catcaccgca ctacggggtt gtatgttggc 240
 attttactta attggatatt agaattgtgt taatatatga attatgatta ttatcaaatt 300
 gtatgcatta tgagtgaacc tagcttctctg tttgagggtc aatatagtga gtaatatgga 360
 caagttgcga taatcattgt ttcatattg aatttccatt ggacagggtg gaacacttat 420
 tttttactta ttctag 436

<210> 2173
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2173

gaagctctaa tatcttccac acttttttgt gtggggccatt cttggatggc cttgattttc 60
 tcagggtcca cttggacccc atttctacca actaccaaac ctaaaaaac tatattatct 120
 acacaaaagg tacacttctc tatatttgca taaaagggtg ttttctaag gactgaaaga 180
 acttgtctga gatgggtctaa gtgatcatct agcctcctac tataactaa aatatcatca 240
 aaataaaca ctacaaatct acctatgaaa tcccttaaga catgatgcat aagcctcata 300
 aagggtgcttg gtgcattagt gagcccaaaa ggcataccta gccattcata caaaccaaac 360
 ttggtcttga aagcagnttt ccactcatca cccctttt 397

<210> 2174
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 2174

ggcctgtccg atgcagcagt aatgatggcc cgagttatgt ttgttaacgg ttacgaaccc 60
 ggaatggggt taggcaaaga caacagcggc ataactagct tgataaatgc ctaaggaaat 120
 cgtgggaagt atggtttatg ctataaaccc actcaggcgg atataaagag aagcatcgcg 180
 gaaagaaaga gcggtggtca aagctcgcg ttgaggcaag aaagggaaag aagcccggcc 240
 tgccacatga gtagaagctt tgtagcacg ggtctgggag acgaaggtca actggtcgcg 300
 atatacgaag atgaggatcc gagtacattg gatgtgagac aaccatgccc tgctgaattc 360
 tagctgggaa aatggcgagt ggaggaacgc ccctgcgtct acgcaacgag cataa 415

<210> 2175
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 2175

ttaattgggc accttaaaat tggaggctta aggttggaaat ccaaggagaa gatgatgaga 60
 ggactaccct ttattaaccc ccgtgaataa ctttgggaag gatgggtact tggaaagcaa 120
 tttaaaatga ggttttccaa ggaagcaaac ttatgagcta agaagccacc cgagctaata 180
 catgctgaca tctggggggc aatcaagcca agctcactag gtaaaaataa ctatttcctt 240
 cttttcattg atgatttttc aagaaaaaca tggggtttatt tcttaaagca aaaattaaaa 300
 gtcttttctt gcttcaagaa gttcaaagct gcagtggaga aagaaaatga tcaagatatc 360
 aaagccatga ggactgatcg aggaggataa ttca 394

<210> 2176
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 2176

tcggaagaaa gtgatgaggt acaagcccta aaggcagagc ttgttagagt ccgagtagtc 60
 gaagagaagt tcaagtccat agccatcaaa agtctgaaaa gagtatgatg aactaaggga 120
 cgtcaatatg gccaccgctg atgccttggc acgagaaacc aagaaggccc aaaaggaaga 180
 acacgtgcca gcaaagtttt gaggggcttt atagggcagc aatagtaagc tcaagctccg 240
 aagaggtgaa aggaatcatc acgggtcaaa ggcgatgatct tgaaggacga gctaaaggct 300

taccttatgt cgaaaagaaa tttgtcccaa cagttaagcg agactgaagg gaatatgtgg 360
 gccgtcatcg atgagtgcaa agagaagcta aatctagcgg cgactcacga gcaaaggcta 420
 gaggatgagt acgccaagat atcagcagaa agc 453

<210> 2177
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2177

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 gnggatgacg cctcctctca cctcttctcc tttggcttct gctatatctc catggtggaa 120
 aatcaccatt aaaggacttt attgaagttc aaagatccaa cctccataga agctccacaa 180
 gcaagcttcc atcaggaggt acgctagggg agttactttg tttgtgggct ggtttaggcc 240
 taacaatatt aatgtctgaa gcagtaagcg agtgtgtgat tcgtgccacg aaactgaacg 300
 gccaaaggaga ggagtgggtg tgtgacccgc atcgtggagc aatcaaggga ggtgttaaag 360
 acggtggcg 369

<210> 2178
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2178

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 ttttgaattc tttagttcct gaatgtacaa ccttcaaatt gttgttcatt gtaaacagca 120
 caaagtggac cttgtctgtc tccaagaaac caaaagggag aaatttaata aaagtatttg 180
 ccaggccatt tgggggggact cgactgcca ttaggattat gttctttctg tgcaggctgc 240
 tgggtggccta ttatgtttgt ggaataactc catttttgag gtggatagga gagagaaagg 300
 tagaagtttt ttaatgcttg aaaggacatg tattagtaat aatcagagga tgatgattgg 360
 caatggctat 370

<210> 2179

<211> 370
 <212> DNA
 <213> Glycine max

<400> 2179

atttgacaga gcaacgccac aactggatc tctataaga ctgaaaagca tgagggacac 60
 ctcagataat catgcattat aatgaaaca gttacacag aatcacattg aagcctaaat 120
 tttatctcac atcaatatat tttcgattg cgaacggcat gttactgagg aaatctcatt 180
 gtcttgcaaa tctacaagct gcaatcgggg acaaagtgtg tcaccaagt ccaaagcaat 240
 gtacaatgca ttgcttcgga gtttctgtc gaaatatgaa aactatgacg actatcattc 300
 tattgctcga taactactta tgatcaccaa aaagatacgg acttacacct gctggatttg 360
 aggaatgccca 370

<210> 2180
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 2180

tgccaccag ctcgcccagg tgagctaggt tgcttctct agaagcaacc gccttctaga 60
 ggaatattct ggaaggccca agtgggcctg gttgctattt gaacccccat ttttactaaa 120
 tacacctctt gctctttttt ggtgattctt ttaccgtaac gttatgaaat ttacaaatt 180
 tcgtaacgat gcttgttttc tttccgtaat gttacgaaac cttacggatt acgtaatcat 240
 cctttttttt cttccggaa cgttacgaaa ctttacggat tgcgcactaa cacttccttt 300
 tcaatttccg gcatgtcacg gaacttcacg gattgtgcta caatgccttc ttttgacttc 360
 cgggatgtca cggaacttca cgaattgcct aacgatgggt ggtcaaacga gggtcgcac 420
 ccaacaacgg atggtccccg gacaaaa 447

<210> 2181
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 2181

agctttgagg atatggtctt cgccggcaaa atgatcgaag tgggcttgca aagaagcaaa 60

tttggtcac cgtctccgat aaaaactggg gcaaatgaag aggatgagaa tgagggagaa 120
 acccatgctg tgacagccat tcctatatgg ccaagtttcc caccagccca acaatgtcat 180
 tactcagcca ataacaaacc ttctccttac ccaccactca gttatccaca aaggccatcc 240
 ctaaataaac cacaagccc acctaccgca cttccaatga cgaacaccac ctttagcaca 300
 aacaaaaaca ccaaccaaga aatgatattt gcagcgaaaa agcctgcaga attcacccca 360
 attccggtgg cctatgctga cttgctccca tatctacttg ataatgcaat ggtagctata 420
 accc 424

<210> 2182
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2182

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 acacttcctg agcaggtacg agcagttatg caagtgggat cagcaacttt cattatcaga 120
 gtaatcaagc acagcgggat ctgtagtgge gacagcaaaa ttctgcaagt tgcaagtcgt 180
 ttcccggatg tcaagacatc tcacgtgaca tcagctttct gctccccctg tctccatgct 240
 cttactgctg tgaagcagtt cactgcagca ttttctatca gctactagtc ttttccagga 300
 tgtcaagaca tctcatgtga catcagcttt ttgctcccc tgtctccatg ctcgtactgc 360
 atcttctatc agctactagt ttcagtagct tacatcaatc atcatcagca gcagcagtct 420
 gccctagaa tcatatacat acaact 446

<210> 2183
 <211> 229
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2183

tccgtactgt ctcatgcatt aattcacttg tgtcataaga tttgtggtgt taatattaaa 60
 atcttttggg gtgggaagtg gagaaaggac aaaacaacta ggtttccttt tccttttctg 120
 cattggagtg agaggtgctg actctccan aatagaacag tagagctttc catttttact 180

gttggttgcca attgccagct tttccgtaac ttttttcccc ctgcacatc

229

<210> 2184
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2184

tgtaattggc atcgtanagt ttgatattnt aaaaaattgt ttatatctgt tgtacgtgcc 60
ctttcttacc tgcaatcaac aatttgtttt gtgaaatatt atcacattct gcctcaattg 120
tgattttcct ctgcttatct caaaattagg aggcaaacca ttattgaata tagtgtgacc 180
tcaaaaatca ctgcaaaatt atgatatttc tgcgctgatt gagaagctga gctaaatata 240
cactgattag ttgcaaatat aagattttaa gttcgttcaa ttacaaaca aatgcatcat 300
tgtgtcaaat gaattggatc tctctcttgc aaattaatta tctgtatttt ttatttttct 360
tcttaatagt attgcagggc tcttcaggat gggacaagaa ttggagtttg atctgaatga 420
caagtcttcc gtgggtctca gttccgat 448

<210> 2185
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2185

agcttggtgca natcanatca ctccctacgtt ttatctctag catgcattnt ctttctttct 60
ttaccactc ctcacgtttg gttttttaag gaaaaacacc ataactaaac gcgccacaag 120
gcatccctat cgcaccagat ccaaattctag aacgatgggt gatcaagagg agacacagga 180
acagatgaaa gccgacatgt cggctctgaa agaacaaatg gcctccatga tggaggccat 240
gttaggaatg aggcagctca tggaaaagaa tacggccacc gctgccgctg tcagttcggc 300
tgccgaagca gaccaactc tcttggcaac tgcgcaccat cctccctcan acatagtang 360
acggngaagg gacacgctgg ggcatgatgg caaccctcac ctgggataca accgagcggc 420
ttacccttat gga 433

<210> 2186

<211> 449.
 <212> DNA
 <213> Glycine max

<400> 2186

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tgtcagttat aataataccg tgttgagaca tcaagacaaa caatatacca taataacaag 60
gttttttttc caaacatcag tcacttgag gatatttcta gtgcaatcaa ataggggtcaa 120
aagtcacaac aacaataatc tctcaaccaa aacatcaaga taaaacaata ggataatgca 180
taataatttt aagataaaag cttctcataa actagatact taagtcaaga gtggatcccg 240
tcatgcagta tgtagtaaat tccaattaac actagggtgga tttattaaac atcatcatac 300
attctgttta aaagccacct aagtactttc ttccagaaga tgagtcttca aagttggcaa 360
tcctactggg acaaaaaaga caaaacgatg cctcaaaagg acatatctat taatttccac 420
ctcctcctaa catatgaaga ggggaagga 449
```

<210> 2187
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 2187

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agcttgtggt tgttccttaa gtttcagagt atacatTTTT tttcttcctt agttaagtaa 60
ttaggaaaat tttattagta ggagtattag tagtacaact atgatggaat agaattcatg 120
gccagcgagt tcccacctta atctgttgga taactgaagc tagttatggt cacaaaagct 180
tcaatctaag aagaccatat tatcccgcta aaatggccca ttaagtgtga ttggaaacat 240
aggcacatgc aaatttcatg tgttttagtt aacaacaact tagttatctt tagtcttgtc 300
taagcaatat gacagaaaca tgagtgtcta aagaagatcc aagcccatat aaccttgaag 360
ttttagagaa taataaagaa tgagagagtt atatggcttt taaaaattgt gaaagga 417
```

<210> 2188
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2188

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tgtgtgaatc anactactcc tgcattntat ctctagcatg cattcattct tctttaccta 60
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ctcctcacgt ttgggtttttt aggaaaaaca ccataactaa acgcgctaca aggcattccct 120
atcgcaccag atccaaatct agaacgatgg gtgatcaaga ggagacacag gaacagatga 180
aagccgacat gtcggctctg aaagaacaaa tggcttccat gatggaggcc atgttaggaa 240
tgaggcagct catggagaaa aacgtggccg ccgctgtcag ttcgactgcc gaagcagacc 300
caactctctt ggctaccgag cgccatctc cctcaaacac agtaggacgg ngaaggtaca 360
cgctggggca cgacggcaac cctcatctgg gatacaaccg aacggcttac ccttatggat 420
tgcacctaata tactcacca 439

<210> 2189
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2189

agcttatcaa atatgattttt gggcccaata atatctggtg gcccaattac aaaaatacaa 60
cccaaaaacg aaataaaata aaactggacg acaataaaaa ttgtctgctc tcttcaagtc 120
caagccggtt cagcccaatt gcttgtaatt ctctgaaat taaattaaaa cacagaatta 180
gtcaagtagg cccaaatgat aaaactgcat aatttatttg acaattaagg ctaatcagta 240
attaaaatgg tgacagaaag gggtaagaaa taggagaaaa taatgacaca tcagagagca 300
ggcaciaaga tttggttagt aacttaaacy agcgataact ccctatccnc tcatgtctta 360
accaagttac tatcgtttcc cctccttttt actctttaca acaactctgt aca 413

<210> 2190
<211> 397
<212> DNA
<213> Glycine max

<400> 2190

tccttgagaa gattccttga gaagattcct aaagaagcta gagcttagct acatacacct 60
ctctaataagg aaagctcacc ttcttgagat gagaagctag agcttagcta cacccectat 120
aatagctaag ctcccccta tcccaaaaat acatgaaaat acaaaaaaaaa agtccttact 180
acaaagacta ctcaaaatgc cctgaaatac aaggctaaaa ctctatacta ctagaatggc 240

caaaatacaa ggcccgaag aaggaaaaac ctattcta atgtacaaag ataagcaggc 300
tcatacttag ctcatgggct cgaaatctat cctaaggcta atgagaaccc tagggccttc 360
ccttgatct ctggccaat ctacttgag tcttcta 397

<210> 2191
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2191

agctntgagc caaaatccta tctcaccata ttaaagagaa ggaaatttcc aatcatagag 60
aaagcaaaaa aaaaaaaaag agaaggaaaa tttccaatca aaggaaaaag gagaggaaaag 120
gaaattccca atcaaagagt gggagaaaga aaaaaaaaag aaagaaaatt cccaaccaa 180
gaatgggaga aagtaaaaaa aaaagaaagc tcttggtcaa agaaaccaga aaaaatgtgc 240
agagaggtct ttggaccaga caatatctga acaatacaga attgtcacca aatgaacaaa 300
agaaagaaaa ggaaaccata acctaaaagt ggtcttctcc ctttgattac cagccaaaat 360
cctgtgctgc ggtgacttgc tcgcctcgcg tcaaacaaaa acagaaaagg aaaagctcaa 420
acaca 425

<210> 2192
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2192

ntgatattgg taagtaaag cctcanaact tctattatat ttctgtttc tgaagtacgt 60
tntttctcac taacatctct tttataaca ttaatctctt taatcctctc atttgacta 120
attactttat cttacatctt tcttcctttt cttctcatct ctttttctat taaaaagtt 180
gcccgatctt gttatataaa tgcaatttct cttttcattn taccaaactc tatataaaga 240
tattttatct gtttcaccag gacatatttg ctgctggaac tgatacttca gcacaaacac 300
tagagtgggc tatggcagaa atgatgagaa atccaagagt gagggagaaa gcacaagctg 360
aattgagaca agctcttcga gaaaaggaaa taattcatga aagtgatcta gagcaactta 420

<210> 2193
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2193

agcttganga ttatgngta cccatcatat gtggtactag gtggcggnCG ggcgatggTg 60
 cacaacaagt tttccacatc cacaagcgc acataaaccc accatccctt gttgcccacc 120
 tccaactgag ctacagtact cccacgtagc ccataacctc gtttctctca acaccgggtc 180
 cccatcaatc ctcccaagct tcccacaat caaagtaata caacattcaa acagcacaag 240
 ctatcacagc caagcaaac agggcaaaag cagaaaactc tgcccaaac accaaccaaa 300
 atcacagctt ttcacatata aataccccag aaacatttcc ttcgttctca ttcgttaacc 360
 gttggatcaa ctcgaaattt tactggaagt ctctagtaca taattctaca t 411

<210> 2194
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2194

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 gcaagttgaa agccttgag gaaaaaggta tgcctatgtt gttgtggatg atttctccag 120
 atttacctgn gtcaacttta tcagagagaa atcggacacc tttgaagtat tcaaggagtt 180
 gagtctaaga cttcaaagag aaaaagactg tgTcatcaag agaatcanga gtgaccatgg 240
 cagagagttt gaaaactgca agtttactga attctgcaca tctgaaggca tcaTcatga 300
 gttctctgca gccattacac cacaacaaa tggcatagtt gaaaggaaaa acaggacttt 360
 gcaagaagct gctatggTca tgcttcatgc caaagaactt tcctatgatc tctgggctga 420
 agccatgaac acagcat 437

<210> 2195
 <211> 442
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2195

agcttaggaa cccaagctct taacttcaat gcttgaagc atgacttatg cctaanaatc 60
taagtttttg ttntgaaagt ggaaagggcat gaaaattagg acatgcttga gagggttttt 120
tactaaaatt tggctgcccc atgagggata ctttgcacat aggttagcatg gaaaatacct 180
ttcaatgtgt cataccctaa tttcgtccgg ngacctttgc ttgatgacat ggcacctttc 240
tttggtcctt gtgaggtgct tgacacccat cattaggcag tttgtgaaat tccaggacat 300
gtcggaaaat caaaaaaata ttgatgcaca atccgtaagt ttccgtgaca caccggaaat 360
caaatggaag catcgttgca taattaagtg aggttccgta acattccgta agtcaaaaag 420
gggatgggta tgtaatccgc aa 442

<210> 2196

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2196

ggaccaagt gcactgtcac tgganagagg gttcatggtg tatgtatgcg atttccaata 60
aagatcttta taatgctgct tttgtatgtg agaagcaaaa gtacgcgtga gtgtgaatat 120
gattaccttg cgtgagaatt catcttaagg atacatgata gtagatataa taagaatgaa 180
gatgaggaag cataattaaa cgggattata gactcaaattg ctgaagtgtg cttatcattt 240
caaattatca atttccctta atgtgtctaa aaggetgagg caacaaatga agcaattttg 300
cgctctgaga cagtctggtg tgtggntttc tattggatta tttctgcctt ttgtgtgcct 360
gtttttcttc tactggtgaa aatat 385

<210> 2197

<211> 371

<212> DNA

<213> Glycine max

<400> 2197

gctggaatca tttatcctat ctccgaccgc cgatgtgtga gtccattctt ttagtcttga 60

agaataccgg cctcgtagt atgaacaatg agacggagga gctgattcct actctggtgc 120
 agaacagttg gagagtctgc atcgactata ggaagctgta ccacgttacc acaaaggacc 180
 atcttccctt atcattcatt gaccacatgc ttgaacgcct ggcaggaaaa tctcactact 240
 gtttccttga tggatgttct ggtcatatgc agattactat tgctactgag gatcacgata 300
 aaaccacatt cacctgcccc ttcagtactt ttgcctatat gaagatgcct ttccgactgc 360
 gcaaaggccc t 371

<210> 2198
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2198

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 catctcaata tattacggga cttaatcgga catccgagtt aaaagttatt gttgtttgca 120
 tttgctacga gcttcggtt tcaattacga gcgtctcgat atattacggg actcaatcca 180
 acctccgagt taaaagttat tgtcatttga atttgctacg agcttccgtt ntcaatttct 240
 agtgtattga tatattacgg gacttgatcg aacattcgag ttaaaagtta ttgtcatttg 300
 catttactca cagctttcgt tttcaatgac gagggtttcg atatattacg ggactcatcc 360
 gaggttgaaag ttagtgatcat ttgaatttgc cagcagcttc tgttttcaat tntaagtttc 420
 ttgatataatt tcgggactca atcggacatc cgaggttaa 459

<210> 2199
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 2199

tcattgccta acaagccaac ttacaacagc aagccccaag agactcagca taaggatgca 60
 cagaccaaaag ttgcgtatgt aaaaaaattg tatgaccaag tgaaggtgca aattgcaaag 120
 aagaatgaaa gctatgccaa gcaagcccaa aagaaaagga aggaagtggg acttgaaccc 180
 ggtgatgatc ttggacattt gaggacaaat gttttccaag aaggagggaa tgatgagaat 240
 catgaaacag gccaaatata gtctaaaggc ccaagtggag aaggacgaag gcccaagtgg 300

agaaggacaa agcccccgag tggagaagga tgaaggccca agtggagaag gatgaaggcc 360
cataggcaga gacactatca agactattaa ttgatgctga aggccaagat taatttgaag 420
gcccataata aatatgttct atctagttat aa 452

<210> 2200
<211> 442
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2200

agcttgccctc anagaggtcc aggaaggaca agtcagccga aggaactagt tccgctccgg 60
agtatgatag tcaccgcttt aggagtgtg tacaccagca gcgcttcgag gccatcaagg 120
gatggtcgtt tcttcgggag cgacgcgtcc agtcagggga cgacgagtat actgatttcc 180
aggaggaaat atggcgccgg cgggtgggcac cactggttac tcctatggcc aagtttgatc 240
cagaaatagt ccttgagtn tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
tgagatcctg ggtaaggggt cagtggatcc cgtttgatgc cgacgctatc aaccaactcc 360
taggatatcc gttggtgttg gaagagggcc aggaatgtga gtatggccag aggaggaacc 420
ggtctgatgg gttcgatgag ga 442

<210> 2201
<211> 395
<212> DNA
<213> Glycine max
<400> 2201

gctgtatgaa gcgacactga cctaggtccg cttatgataa ctattagttg gctgcggcat 60
tatcaataca aactggcgg ccgtgtctgt taagacgaaa gtgagccact tattcagatc 120
atatagaggc tgagacaatg attgcaccag cggatgacca cacggagtct accatactgt 180
atagcaatac aactggcgg ggcgtatacc tatgtggagt gacggatggc attctacacc 240
acacagcggga cattctgctt tatattgaac ttacccgaga ttatcctgga gtgtattttg 300
gataggactg aagagggatg tgatgagact tgtacagaag tgtgatatat gccaacgaca 360
taaataccgt cccactgctc ctgtgggttt actac 395

<210> 2202
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 2202

agcttgga aa tgaacaacag aagctcacga gatactacaa tggtcataac atgtcacacg 60
 aaagtccgat tcaggtgcat aatatatcga gacgctcgaa atagaacatc ggaagctctc 120
 gagaaattcc aatggtcata acttttcaca cggaagtcct attcaggcgc ataatatatc 180
 gagaagctgg aaattgaaca acgaaagctc tcgagagact caaatgggtca taacttgtca 240
 cacggacgtc cgattcaggc gcataatata tcgagacgct cgaaattgaa caacgtatgg 300
 tgtcgagata ttcaaattgg cataacttgt cacacggaag ttcgattcag ggcgataata 360
 tatcgagacg cttgaaatga acaacggaag cttgagaaa ctcaa 405

<210> 2203
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2203

tganattgaa caacggaagc tctcgagaaa ttcaaattgat cataactttt caaacgaaag 60
 tccgattcag gtgcataata tatcggaag cttgaaattg aacaacggaa gctcttgaga 120
 aattcaaattg gtcataactt atcacacaaa agtccgattc aggcgcataa tatatctaga 180
 cactcgaaat tgaacaacgg aagctctcga gaaattcaaa tgggtataac ttatcacacc 240
 gaagtccgat tcaggcgcgt aatatatcga gacgctcgaa attgaacaac ggaagctctc 300
 gagaaattca aatggtcata acttatcaca cggaggtccg attccggcgc atagtatatc 360
 gagacgtcga taattgaaca acgaaagctc tcgagaaatt caaatgctca taacttatcc 420
 cacggaaggt cgattcatgc gcatgatata tcta 454

<210> 2204
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 2204

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cactagtgtt gtattttcaaa agcacaaact ctcaattaag tgaaaagagt ttaaaattgc 120
acaattttat gaagatttca agactctaca cttgatcacg aacttggtac aattaccaa 180
gctatggtaa tcaacatgac cacacttaga tgataacatc cctcctagaa caatgtcaaa 240
gatttgacaa tagtcgtggg atacttacca cgaccataat ggtcaagagc ttcaacatca 300
tttctaacca gtcatgggtg atttaccaca accgtagtgc gctattcatg caaatatctn 360
tagaaagcta tata 374

<210> 2205

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2205

agcttccatg tgcaggttac gccatattct cttatcttca ggtaacctaa tgcctgttgg 60
tttgagttag tcaactgggg tttcattttt gaatcagctt cctagtgatc caagtatgac 120
aacagacaac atatctggca agtatgatgt gaagaagaaa gaaaatatac caattacaat 180
tgcaggtgat attgatgggt gaatgcttga tggccacctt aatgccctg ttggtgtttg 240
gcgcacatta ngagcttcaa aagttgtaaa accttcaaat tcacctaaca tggaagntgt 300
tccttccttt cctcataatt ctttcaatga agagggtatc ctttcttatg gtctaaggaa 360
accacttcag gagcttcttg atgggatagc attactcgtc caacaagcta tttcctttgt 420
tgatct 426

<210> 2206

<211> 364

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2206

tgtagaatgt ganataaata tatggagtct ctacggcttg tggaggagac tacagatttg 60
ggatatgaca gatattacaa ggacctgtaa ctcaaacaat gggagaaaag atttcactgg 120

tttcctat ttt gttgcaccac ttccccataa cccatctgaa acaatatggg gtggcgtagc 180
 atgcaggcat accatgtacc tgtgcgtcgc ctcatccact gtcgtaattg aaaggaacat 240
 agttccat ttt ggattcaa ttcattttgat caatctatat gagaggagta gtactcaata 300
 atggcactta attaatgag ccaatgagag agtgtaattg aatatatatt tgtcacgaca 360
 cgta 364

<210> 2207
 <211> 367
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2207

agcttaggga tggaacactt acttggtggt gatgaacaaa agtgcaaaac ggaatcaaaa 60
 aatgcgnaaa aggatgaccc tagggctgca aactcgtcaa tcccgtgggt atggcttttg 120
 aaagggggga aaagatagtt ttgaatgtaa aaacgcccc cctttcgtca ttcttataat 180
 ttggtgcagg ggtggctcgc ccagctcgcc caggcgagct aacctgcaca cattnttttt 240
 tttttttttg aggggaacat taaccatgtc cctcccttc tcatggatta gcatcttgcc 300
 taacttgaac ttacttaggt tagaattagg cgttgattac ttattcttac caatagtaaa 360
 agaaagc 367

<210> 2208
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2208

ntcctctnta tttcggtcat tntcgatttc ttttcttcg tctttaacgc gcttttaccg 60
 tttatttaag ccgttttctc acctaataaa tgataaaatg aatttcaacc gatcatttgt 120
 gttgtaatct catttaatca cttttaaaat gaaatctaac cgatcgttca cgctataacc 180
 tcggttaaac aaaaaaaagt aaaataataa taaaataatc aaaatatctt gaaaaataat 240
 aataaaatga acaaaatatac tttgaataaa ataaaacaaa aaaatcaatc ggacgttttt 300
 tctttggaag tttccttgaa tgaattgatt aataaccaa gtgaaactaa gactaanata 360

gactcacaaa tcaagttttg tccgaaaatc ac

392

<210> 2209
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2209

agctntntca tgtttagaga tntctagaga gagaaaggtc caagtttcaa agagtttcga 60
gagtgtttac tatgcaaaga ctggcagaga actgagagtg aagaggaagc catcctgaga 120
gcatgagatg agtctatgag tgattatgag tgattagagg tggaggagag atccccacta 180
cttgcatttc ttcaatcctt aatttttctc ttctctttgt tggaaaggaa gcttcctaga 240
tatggagagc taaatcctct gttggttctt gcttgtaggt gcttgatgta aatacatgta 300
tatctattta atgatggttt atgtgttctc tgtgctatca gtatgtcatt caatattgga 360
aactggctcg attcttaaatt cttgatagga catgcgctag ttatcgtatt atcacgacgg 420
atc 423

<210> 2210
<211> 370
<212> DNA
<213> Glycine max

<400> 2210

tgaagggtgtg tagcccacca tcttttcata gtagaatact agtagtgtgt ctactattat 60
tgtcatcatt tttttctccg tcattgaggt gccacttgag ctgccaggtc tctccacctt 120
tgggcgtatt cttttgaaga attcgtgccc cttttttgca catgttttgt agttgcatcc 180
tatccgaagc cattataccg aactgccta acgaaggcaa ccattagggtc ctcccaggaa 240
tggaactcgtg aaggttccaa gtagtgtac caggtaacaa ctaccccagt aagactttct 300
tggaaggaat gtatcaacaa ttcctcatct ttgcgtagt ccccatctt ccgacaatac 360
atctttagat 370

<210> 2211
<211> 372
<212> DNA
<213> Glycine max

<400> 2211

agcttattac ttttttataa tttataaatt gattcagata tacattaatc aagggtccaa 60
taaactaatt gcaaatgtcg aacagaatat tgcaggcaat atggccaggt ctgagaattt 120
tggttaattta tgtaggcaaa gaaactaaaa gtgtaaccat aacctgtatt ttgactgaag 180
caccttgcac tcctccaagt gaatttcttt ttgtaacaa ctaaattctt ttgtagatat 240
aataatagac tcacctccc agtgagtatc ttttcggttt atctgggttg ctgcttcttg 300
gctgcttcta gtaagggtaa caacgtctgg atcatcataa aataatctag gctgtcaaac 360
tatattacaa ca 372

<210> 2212

<211> 430

<212> DNA

<213> Glycine max

<400> 2212

ctacaatgga ttaggtatcc catttcaaca aaaaagattt acttaacaga ttaaattctg 60
caaaaatatt ttccaagttt gacatgaaat ccggattttt gcaaatccaa atacaagaat 120
cggataggta caaattgctt ttacaatacc ttttgggcaa tatgagtgga atgttatgcc 180
attcagtctg aagaacgccc cttcaacttt tcagaaaatt atgaatgata ttttcaatcc 240
ttattataat ttatcattgt ctacatgtgg aagcaatgcc ttccaagatt attttgatga 300
tgccaaagaa tcaagagtca tacaagtttc aagaatcaag atcaagattc aagattcaag 360
attcaagaat aatcatgatc aagattcaag attcaaataa agaatcaaaa ctcaagattc 420
aagaatcaag 430

<210> 2213

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2213

agcttcacca cgcttatgag ccttgataa taagcttgga gaggatgctt caatggagga 60
gaagaaagag ggagagcaag agagaggggg gagcacgaaa ttaaggaag ataaaggag 120

<210> 2216
 <211> 293
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2216

ggaaggtgcg taccacacca ttttttcata gtaaaacact gataatgtgt ctactattat 60
 tgtgataatc tctttctctg tcattggagg tgccacttga gttgccaggt ctctcctcct 120
 ttgngtgtat tctttgaaag atttgtgccc ctatttgcac atattctata gttgcatcct 180
 atctggagtc atatcagaat tgtactatta ctgcctaata aaggcaacca ttatgtcctt 240
 tcaagaatgg actcgagaaa gttccaagtt agtgtaccaa gtaacagcta ccc 293

<210> 2217
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2217

gtctcacgat tgaacatgct catgcaacaa ttgttagtcg tggctatacg agacatcttg 60
 ccaaacaag ttaggttagc gataactcgc ctgtgattnt tcttccatgc tatatgtagc 120
 aaagtcattg atccagtcaa gtttgatgag ttggaaaatg aggccgcaat tatactgtgc 180
 cagttggaga tgtattttcc ccccgctttc tttaacatca tgattcactt gattgtgcat 240
 ctggtcagag aaatcaaata ctgtggcctt gtttatctac ggtggatgta cccggttgag 300
 cgatacatga agatcttaaa aggtatatac aagaatctat atcatccaga agcatttatt 360
 gttgagaggt acattgttga agaagccatt gaattttgtt cagaatactt 410

<210> 2218
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2218

ttggtctctg ccagtgaag gatcgatgtg ggtctgaaaa aaaagggctt atttgatcat 60
 catactatga tgactgagaa aactggggca aataatgagg gtgagaaaga gggagaaacc 120

catgctatga ctgccattcc tatacggcca agtttcccac caaccaaca atgtcattac 180
 tcagccaata acaaaccttc tccttaccta ccaccagtt atccacaaag gccatcccta 240
 aatctaccac aaagtctgtc taccgcactt acaatgacga acaccacctt ttgctcatac 300
 cataaacacc aaccaagaag tgaattttgc tgcgagaaag cctgtanaat tcacccaat 360
 tgcagtgtgc tatgtgact agcaccata tct 393

<210> 2219
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2219

gcaagcttgt tgaaattgcc atgtttgggt gagttataca taccattct gttttatgg 60
 tntgtgatga tgtttgtcat gtttgtatgc tgaaattgcc catggaaaac tgtagagat 120
 gaaatataga gttaacctag gggttgaaag tgagaatgtg gtgttatgag tggaaaaaga 180
 gtgaggcttt gagagttgga aggctaagtc tgaattctgt ggtaaatgga gggttaaagt 240
 agttaatact agcttgaaat gtcatttang acttgggaga aagcttgga tgtgctagag 300
 agaaaaacaa atgatcaaag tgaataaaga gccatttcta gggcaaaatt ggggtgttgaa 360
 gagtcaaatt ttgattcggg ggaattttag gtgtaaattc agtttgagc 409

<210> 2220
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2220

gtgtaatcga ttacactaat ttggaatcg attaccagtg tttgtttctg aatatatcaa 60
 aagatgtaac tcttaaaaat gatttttgac tctttcaa at tggttttaag tttttctaaa 120
 agttataact cttctaaatg gtctcttgg ccaaacatga agagtctata aaagcaaggc 180
 tttgatttgc ttttcaatac acttttacac ttattcaatc aatcctttac aagccttgaa 240
 tatctttgaa cttcttctc ttctttgtac caaagcttt ctgaagtttt tcggctttct 300
 aaaccttgaa aacttgtgct attcatctc ttcatctct tctctctttg ccgaaaagaa 360

ttcatcaagg actaaccgcc tgaattcttt ntgtgtctct cttctccctt ttccaaaaga 420
 acaaaggact aaacgcctaa attat 445

<210> 2221
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2221

agttgctcat ctcggtgttg aggggtggac aacatcctgc aacatggtgg tgatgaatcc 60
 tcttttgcac agaattaagg aggcaatgaa gggatgaacct caaatatata taaaacaaaa 120
 tctatgtaca cacacttana aagaagtgga atttgggtgtg gtcacaaacg tgtatatgtt 180
 cctcaacttg aaggtgacta aaaacaataa tattgcatgc ttaggaaatt aaagccttaa 240
 aaaggattaa tttttttcta aaaaagaaaa caaatataag acatcaagaa ggtgacataa 300
 aaagaaagta gtagagagag agaaagtgtg tatgctgtgt tgtgttagct aagatgatgg 360
 ngtgtatgag ggtgtcaaaa acagagaaaag ttagttatgt gcatatat 408

<210> 2222
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2222

ntgatggtgt tgagaagaaa tcacatgttt gtcacatca ttaaggggaa gaatgtgaat 60
 gtatgtatac atgattttga tgatgtcaaa agaagaatca aacaaggctc gcttcaagat 120
 taatacaaga ttgtttcaac aaacaaagcc ttgattcaag atttcttcaa gatcaagcct 180
 tgcctcacia tgaaagggtt caagtcattc aaggcacatg taatcgatta ccaatggctt 240
 gaaagtgtgt aatcgattac acatcatatg taatcgatta ccagagactc tgaacgttgg 300
 gaattcaaat tttaaataaa gggtcacaac tgttcaagag aaacaactgt gtaatcgatt 360
 acactaatc tgtaatcgat tactagagag gattttcaag agatatcgcc aacagtcaca 420
 tcttatcatt tggat 435

<210> 2223
 <211> 270
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2223

catgcaagct tataccaatc aagttgaccc gtatgttgat attacacata tggatcttct 60
 tgatccgtat aagctttacg gatcaacttg atccatatgg tttactcatg ctcatccagc 120
 tntatggatc aacatgatcc gtatgactca tagggatcaa cttgatccat atgactcatt 180
 cggatcaact tgagtgaatg gtatgtttgc ccatttagtt aaaatgatga ggcaccaaac 240
 aaaaacgcta ggtgcaccta caatcacctt 270

<210> 2224
 <211> 162
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2224

gcttccatca cgtgtggtcc gcggtgcggt gacggaccaa tttatttggc ctgtgtaata 60
 tagcggngtg gactggcccg gtccgctgcc aatgcgggct tatgcaggcg ggccttatga 120
 aggacgggct ggtccgtttg cccaccccta gatatacttg gg 162

<210> 2225
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2225

cgatcatcact ttcttccgaa gctntaacct cattgtctct cacagtcttt agattgggga 60
 gccaatccaa tccttgtgtc cggactctca gccacttatg atagccgccc atgatcccat 120
 tactgcttcc cctaagctct ctgtcctttc ttcacgcgcg atcccatgcc ttgcgaactc 180
 cttggagtac cctagcattg tggtcactga aacctcgtgc gatgaaaggc gtgatgcttt 240
 cgtctgatgg tactcctctc atgggacatc cttcgcatga agatagaatc ctgattcttc 300
 cttccttcta gcgagggaac catttaacag ac 332

<210> 2226
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2226

tgacattgca tttgggcacc tattttgaat ttcctatgct gtctctacat acataanaca 60
 gtcccacat cccaatcttg caaaaccata ttcatatatc attgnggcac ttcaccgagc 120
 acttggtggg cgcaagtttg gacataaatt gcaagagaat gggggcaatg tggcatgccc 180
 cattgcttca gaatacaaca tatgcctaag gccttctcat tcaaatactc aactcaagaa 240
 gtcaagcata aaaacaaacc aaaattgccc cacanataata agcacgttct cacaatttat 300
 agcaccaaaa gatgaagaaa atactccaat gggaagcaaa aaaaactcaa ggattgaata 360
 cttgttggag tgagtagaaa caccaaaaat gaaagcaaaa tgcaacaaaa agt 413

<210> 2227
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2227

tttgatctcc tgttggggct ctatattgtg ggagtgtgct canatatatg gggcaatttt 60
 gggttggttt cttgcttgat taggttgaat taggggttgg tatgggatgg ccctaggcct 120
 ataatgcatt ntgaacaat gggacatgcc acattgtccc cgttctcttg ttattgacgc 180
 ctaaacgcgc gccaccaag tgttcggtgt aatgcctcaa tggcattagc gcgtgacttt 240
 tgtaaggaaa caaccgcgg ggcatttttg tttgacatat tttctattct tggaatatgt 300
 attcattccc gaaaaaggct atagatattg cccacatata ttctaagcct agaaac 356

<210> 2228
 <211> 319
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2228

tgaaaacact ntttatnta aatcacttgg ccaaacttt gctaattctt ttatgaattc 60

cctccctaatt attctagtga tcatcttgat gttgggactc gtaatcttga agaattggacc 120
cgaatttttaa tcttgaaaag cccatttgca tcaattgcaa cacatcatca tgatcatcat 180
caaaacatca aagccaatgg catctacaca tgtgtcctcc accttcaga ttggagctat 240
gtctcagcat tgcccaattg cggaccctaa acgcaaaacg acattctccc cttttttttc 300
agagacccat gaatgatat 319

<210> 2229
<211> 418
<212> DNA
<213> Glycine max

<400> 2229

agcttgggga taccctaactt tcttctatac tctctctttt gtcacaaaca gtccttagca 60
cacttccttc tcaaactaaa attaaccctaa agaagaaaca tgtcagggtt ataatgacaa 120
gaagcaagaa agctagagag aatatgaagc aaaatggggg atccacttca gatgccacaa 180
aggaggtttt tactaaagag aacctagtgc cagaaaaaaa ggtagaggaa agggagatac 240
taacatctcc caaggtaagt attcctttcc ctcaaagggt aaaaaataag caataagatg 300
agcagtttaa aaagtttatt gatgtaatga agagactgca catcaacatt tctttaattg 360
agattatttc acaaagcca aaatatgtca agtacttata agacatactt tatagtaa 418

<210> 2230
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2230

cgagatgagg aagtgttgaa gggtgaaact tcttgctttt attgttgacc acagagtggg 60
acctggagat atgtcgcggc ggtcaggaga ccttggggac gtcagggtgg gtgctattgc 120
ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180
tgatgtacct aagcaggcga gtccttgga gtcaacagat aaaaggaaca aagaccacaa 240
agcaaggagg cttgtgggtg ctggccagct gtgaactttg attgatatgt gggttatggc 300
ctctggtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttanaaa tgaagacagg 360

gggctaagat ggtctctggt aatcgattac cacgggatgt aatcgattac caggcttgaa 420
aacggagtca gga 433

<210> 2231
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2231

agcttgcggt gaacaaatat aaaaatcctt tgtgcactnt tttctttttc tttcctttac 60
tttgctttgc acaaatttaa aaattgtttt ttgtccaaat cattaaatct atcatcttac 120
ccaaattaac aaaaaaaacc aaacattatt ttaccaaag cttttattaa gcaactatct 180
ttgaaacaaa agtcttaaag tgcaaaagaa ttattctttc agaactgttg cattttcatt 240
atgagcaact tttcattatg aactcgcta tatgaattat cttcagaaac atttgtttta 300
aaagaaacct ataaaaagtt ttcaaaaacc aatttaaccc cccttcttgt ggtatttgtg 360
tcacttcaag taaaaggatt gcttangaat ttgtgaaaac tgatcttcac t 411

<210> 2232
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2232

cctcgcttct acaatctccc nctttttgat gatgacaaac ctataatcaa gaatcgcata 60
caagctctat cttctaatac atcactcact taattccgcc cttttgtttt tgaatntaag 120
cttcacttga aattaagtta gagttcttga ttttaatccca actttctctc cccctttggt 180
atcaacaaaa aggccaaagt gtgttgtgac ataaaatcat acacaaatgt attcatgcaa 240
gagaaaagga gaaactgtta gacatgtggt ctcaataagt taagagggat aagcttagaa 300
tgcagaagaa gtagcaatca atttaataat attcttttaa catgcaagac aaaatttcat 360
gcaataaaat gaatgagata agggaagaga gaatgcaaac acagttttta tact 414

<210> 2233
<211> 347
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2233

agcttacccc tcattgtacc aacaagtgtc cttatgaggt tctctttggc tccaaacccg 60
attgccataa tctntgtgtt tttgggagtc tatgttatcc atggctacgc ccttactcaa 120
ataaaagcat gccatgtgtg tttctaggtc cctctcccca acaccatgca tacgaatgct 180
atcatattct aactcaaaaa atatacctct ctagacatgt tgtctttcat gaatcaatct 240
tcccctcact acgcctcatt tggctccctac cttcccaacc tcaaaccatg atatgacctt 300
acttatctct tgccatcctc tcatactaca acaactccat acaaaca 347

<210> 2234

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2234

ntcgtaggtg aaatcaggtg cagccatttc ccttagagtc ctctcacggn gtggagggtg 60
tgccatgttc tcagaatgtg caaaatcaga atgctcagaa tcagaatgct caaaattata 120
atgctcaaga tcaggatgtt caaaatcacc aataacagaa tgcacagatt caccagtaat 180
ggaatgtcga gaatgatcaa aagggtataaa atgatgccta actaatctat gaaatgtcct 240
atctatctca ggatcaaagg gttgtaagtc agatggattg cctctagtca tacactacat 300
tcagaaagca cacaactagt tgccttgtca tgtaaataaa ggtgtaggtt tgaactacag 360
ctaccctcaa atgatatcca aatgacttga aattttgtga gcaaccttat ataatgatga 420
gaagatagca canaaaattt c 441

<210> 2235

<211> 349

<212> DNA

<213> Glycine max

<400> 2235

agcttgagaa tggagaattg cactaagcaa tctctacgca tagctccaaa ctcgaagggtg 60
gaggacacat gaacgaaaac acaattcatg gtgctccgaa aaagggggtg agaattggaga 120

attacactaa gcaatcacta cgcatagctc caaacttgaa agtggaggac acatgaacga 180
 taacgctatt catggtgctc cgacaagatt gagaatggag aattgcacta cgcaatcact 240
 acgcatagct ccaaacgcga aggtggagga cacatgaatg aaaacgctat tcatggtgct 300
 tcgaaaagat tgagaatgga gaaatgcact aagcaatcac tacgcatag 349

<210> 2236
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2236

nnttggctctt aaataaaagg ttttctctctt tttctattat tttattcaag ctctaccaca 60
 tgtccctatt tgattggagc aaaaagggcc cactttctct ttttgactgt gaccatact 120
 cagtcacaaa agtgagaaaa atctgacctt tgaaacgcta aaatcctgcc tcggtttgcg 180
 tgccgtttct ctggttccag tttctcgcgt ttctctgcgt ccgtcggggc cagttttcga 240
 aagcaagcaa tatgtatata aaaacgctca gaatgaaacc ccgagcgtgg tttagagggt 300
 ggtttcgtta aattttaagt cgcacgcaaa acgatgatct ttaact 346

<210> 2237
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2237

ncaagcttga gcaaattcaa acgacaataa cntttcactc ggatgtctga ttgagtcccg 60
 taatataatcg agactctcaa aatggaattt cgaagctctg agcaaattca aacgacaata 120
 actttttact cgtatgtctg attgagtcct gcattatata gagaccctcg aaattgaata 180
 ccgaagctct gatccaattc aaacgacaat aactttttac tcggatgtct gattgagtcc 240
 cgtaatatat cgagaacgct cgaattgaat attgaagctc tgaacaaatt caaattacaa 300
 taactttttc ctccgatgtc tgattcagtc tcgtaatata tcgagacgct tggactagat 360
 tgccgaagct ttgagcaaat tcaaacgaca atatactttt act 403

<210> 2238

<211> 412
 <212> DNA
 <213> Glycine max
 <400> 2238

tctattctga atttcaagcg tctcgatata ctatgggact ttatcgaaca tccgagtaaa 60
 aagttattat cggttgaatt tgctaagaac atccgttttc aattacgagc gtctcgatat 120
 actacgggac ataatcggat atctgagtaa aaagttattg tcgtttcaat tttctaagag 180
 catctatttc aattttgagt gtctcgatat attacgggaa tcaatcggca tctgagttaa 240
 aagttattgt catttgaatt tgctacgagc atatgttctc agttacgagc gtctcgatat 300
 accacgggac acaatcaaag atccgagtaa aaagttattg tcgtttgaat ttgcacagag 360
 cttctgtttt cagtttcgag catctcgata tattacagga ctcaatcggca ca 412

<210> 2239
 <211> 302
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2239

agagaaaatg tccgattgat ttttgtgctt cattttacta aaagatatat ttttttatta 60
 ttatattatt attttacctc tttnttttta tttccaacgt ggttatggca cgaccaaacy 120
 gtgggaattc attttaacaa aaattaacga atactacaat tcaaagatc ggtggaaatt 180
 tattttttta gattacgagc gaaatgactt aaataaatga ctgaagcagc tcaaaagggtg 240
 gtacgaaaag aaaatgaaac gagaataaaa gtacacaaaa taaatgggga ccaccacggg 300
 ta 302

<210> 2240
 <211> 447
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2240

ntgaatgcac tattcaatgg agttgacaag aacatcttct gtctgatcaa cacttgcaca 60
 gtggcttttag atgcatggga gatcctgaaa atcactcatg aaggaacctg caaagtgaag 120

atgtccagat tgcaactctt ggctacaaaa ttcgaatatc tgaagatgaa ggatgaagag 180
 tgtattcatg acttccacat gaacattctt gaaattgccat atgcttgac tgccttgga 240
 gagaggataa cagatgaaaa gctgggtgaga aagatcctca gatccttgcc taagagattt 300
 gacatgacag tcaactgcaat agaggaggcc caagacattt gcaacatgag agttgatgaa 360
 ctcattgggt ctcttcaaac ctttgagcta agactctcng atagggtga aaagaagagc 420
 aagaatctag ctttcgtgtc caatgat 447

<210> 2241
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2241

gcttgacttg gcgaatatga tttagcctta tgtttcactt tagttattag tcaattcaat 60
 taagaatgag aaatcccaaa gagaacatgt ccgattgatt tttgtgcttc attttactaa 120
 aagatatatt tttttattat tatattatta ttttacctct tttttttat ttccaacgtg 180
 gttatggcac gaccaaacgg cggaattca ttntaacaaa aattaacgaa tactacaatt 240
 caaatgatcg gcggaaattt atttttttag attaggcgcg aaatgactta aataaatgac 300
 tgaagcacgt caaaagggtg tacgaaaaga aaatgaaacg agaataaaaag tacacaaaaa 360
 aaatggggac caccacgggt acagagaatg aattgaaaaa gcttgattcg gaaacttacc 420
 cggt 424

<210> 2242
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 2242

tgcttgaatg cactattcaa tggagttgac aagaacatct tcttattgat caacacttgt 60
 ttagtggcca ttgatgcatg ggagatcctg aaaatcactc atgaaggaac ctccaaagcg 120
 atgatgttca cattgcaact cttggctaca aaattcgaat atctgaacat gaaggaggaa 180
 gagtgtattc atgacttcca catgaacatt ctatgaaatt gccaatgctt gcactgcctt 240
 gggagagagg ataacagatg aaaagctggt gagaaagatc ctcagatact tgcctaagag 300

atctgacatg aaagacactg ctatatatga ggcccaagac atttgcaaca tgagagttat 360
gaatcattg gttctct 377

<210> 2243
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2243

acgttcaata tctgctggta atcgattact catatatgtg taatcgatta cacagtgcaa 60
atntttgaat tcaaatttta atagctgttg taaatcagtt ttggccactg gtaatcgatt 120
accagagagt aaatttattg taaaagactt tttaacttaa atttcttggc caaacctttt 180
gctacttcaa ttgaaattcc cttcctatth aatataccct ttctaagatt ctagagactg 240
tcttgatcat ccactttgaa tatctttgat ttctttgtct tgaataaagc tttgtgaaac 300
atgtaaccct ttggcatcat caaaacatca gcttgatcct ttgtctacac agacgacgtc 360
aagtcctatg aagcacatac aaggacattg agtcctataa aagacaaaag acattgaagt 420
ctttgaaatg t 431

<210> 2244
<211> 417
<212> DNA
<213> Glycine max

<400> 2244

gattgagtca tgaatcaaga ttgactcatg atgatgaatc gagattgatt tttgtgattt 60
gatgataaca aagatgatga caataagccc aagagaatga cttctagatt gagtcaagaa 120
caattcaaga attaagaatt aagtttcaag tttcaagttt caagaatcaa gaatcaagaa 180
taatcaagat caagattcaa gactcaagat tcaagaatca agaaaagact caatcaagat 240
aagtactaaa aagtttttca gaacatggag tagcacatga attcacaaaa gcttttacca 300
aagagttttt actcttttgg aatcgattac cagtttactg taatcaatta ccagtagcaa 360
agtttggttt caaaagctgt cagactgaat ttacaacggt ccaattaatt tcaaaat 417

<210> 2245

<211> 436
 <212> DNA
 <213> Glycine max

<400> 2245

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tgcaagcttt aacatcaagg tgtttcccat gaagtacgaa ttttcatctg agggtttgtt   60
gcaaatagta cttttcttgg ttccatacat tttcacattt ccaagaagag ttttttggag  120
gatggtgtat taagtgatga tgagaatatc tgccatcaag caagagctta gagtttctgg  180
atgaaatgcc aacaactcag aatattgctg ctgggaaggt gccacctgtg gctatcatca  240
tctctcatca gaatcttgga ggtgatgtaa gttcaatttt cagtacacct tacaaggcaa  300
tcatatgccc tctgggacag tcttacttgt aaggaaactg atctctatgg acatgaaaat  360
aatgcactac cagagcaaga tagttatagt tatagagctt cgaaggctga gaaaactaag  420
tcatgaaaat gtaatg                                                    436
  
```

<210> 2246
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 2246

```

tgtgtaggct ccatctatcc atgttgtctc tccctaactc catgcatttg tattcaagtg   60
gccgtagaat gtagagagat tgaaatcctt aatgttcatt caaatcttt gtgacccaaa  120
ccatagtaga attctgagtc tacactggaa gagaggggtct gggcacttca tgtttcttct  180
tcatccgttg ctctctata acaatttttt cctcctcctt ttgttgatgg gcaggctttt  240
tggtttggac ctttccctta tgctccctaa ggatcctttt aaccttcata gcaaggccaa  300
aagtttccaa agccttgtct ttattagcaa tagccttggc cagtttcttc tgctcttttt  360
gccgaatgtc atcctagttc actagaggaa taagtatgtt cctcttgatg tcaaccttca  420
ttaccttcag gtttacaaca ctga                                                    444
  
```

<210> 2247
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2247

catgcaagct tgcccaagaa acaaagatag cgtggattaa gctcagagct gtatagtaac 60
 gttacacccg attgtaaagg cctttcttga actatacagc tgctatataa aaaacctcca 120
 ccgccagtat ctgacagaga ttatttatgt gtgctttaag aattattaat aaatcttctt 180
 gttcttacgt ttgctttctt gtgtgcattt gtttcattgt ctacctttct ttntttcctc 240
 ttctggatgc agagtttcat actttgtttt ttaaaaagaa aatcgttcat tatgctttat 300
 ttacatcta gcagtacaca aacagaaaga gctaattgtt tttttaatgc tacgtgggtg 360
 tctcaectac tgatactata tntgtcgcag gagtgggtgt ttgttgagag ccacaacttg 420
 aagctcaaca accttcgatac atg 443

<210> 2248
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2248

catcacatgc cattgcttcg ttgatgaggt tgctgtgac gagatttgcg gcattatagc 60
 gccacacgtc ttcaccgtga gcctttgcaa atgaggggtt gccattggcc atgacgcgag 120
 cactcagact gtgccaaggt gccagcatta caggactact ctccagcaag agaaaactag 180
 ccatgctgtg ttcgccgttt ctcatcaatc gacgagacag agctgattga gaatagcccc 240
 tgctgcaccc gtcgcctttg aatatctttc ttgacacaa gaacctcatg atgcgcttca 300
 gatgtgaagt atcacaccct aaacttgatg atatctccga tagtgtcatg ggacttccat 360
 gcttctctat ggcttcagct atgccaagct caatcgcaca ttntatcact 410

<210> 2249
 <211> 279
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2249

agctttctcca tattctgtaa tccataagat tatgtaattt tctctcagct ctccatttat 60
 gataaataag aattctctac attatatattg gcattatatac tggatcaact acaatgacag 120
 taaaaatgag gataaaagtc ataaaacaaa caatgaggag catactgagg gacaagacaa 180

acatattgtg cagaanagca atctgatgtt acctctcca aacttctaga ccagagtgat 240
 ttttctttan atgcctaatt tgcttctttt gaattttta 279

<210> 2250
 <211> 295
 <212> DNA
 <213> Glycine max

<400> 2250

attgagcgaa tgaaatcggt gattgaaatt gcgacactca ttgcaaaca tggctaagac 60
 caaaggatta tgtcgggcct tatgtcacga tactggcaga tgtaggggca taggagaacg 120
 ggatgatttc gatgatgctc tgcagcggtg accgcctact gcattcgac ggaggcaacg 180
 agtacctgtg actgtggcgc acgatgaact attgaaccct acgccagatg tttatgatga 240
 cccgatggag gcaccaactg gtgtaaggac attgtggcag acatttctgt ggaca 295

<210> 2251
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 2251

agcttctttg gaccttgaac aagcaattaa cttctctttc agaaccatgc tatgtgctcg 60
 tgactgggtcc atttcttccc ttcgcaactt gagttcgcta ttgctacccc atagagctcg 120
 gcgaaattta tcccgcccat actcttctt gcgagccctc ttggtctctt gttcaagggc 180
 tcttgcggtta attgcattct cttcccgtaa cccggcacac tccttccaaa atgtgtgttg 240
 cggccaactt gaacttttcc tcggctaatt tcgcctttcc taactcgctt ttgagaagct 300
 ggacttcttc gtctcttccc cgtgcttcaa aactttcttc gctgacgact ttttaacttg 359

<210> 2252
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2252

tgtaggatta tggngtacct atcacatgtg gtactagggtg tcggtcgggc tatggtgcac 60

aacaagtttt ccacatccac aaagcacaca taaaccacc atcccctgtt gcccacctcc 120
aactgaggtc acgtactccc acgtagccca tatcctcttt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc ccaacatcaa agtaatacaa cattcgcaca gcacaagcta 240
tcacagccaa gcaaaacagg gcaaaggcag aaaactctgc tcaaaacacc aacccaaaatc 300
acagcttttc ttacttaaag actccagtaa caattccttc gttccaattc gttaaccggtt 360
ggatcgactc gaanatttta ctggaagtct ctagtactta agcctacatt gtgaccgttg 420
ggatctacta agcaacatcc agaacaca 448

<210> 2253
<211> 397
<212> DNA
<213> Glycine max

<400> 2253

agcttcaaga ttaagatggc ctcagcaa at tccttatttc cggaaggga ttctatcaat 60
agacctcaa tctttaatgg agagggttac cactactgga aaaccgaat gcaaattttt 120
atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tataccacc 180
acagtagaaa gagtttcaat agatgatagt tcatcaagt aaagcataac catagaaaaa 240
cctaaagata gatggtctga agaggataga aaaagagtac aatacaactt aaaagccaaa 300
aacataataa catctgccct aggaatggat gaatatttca cggtttcaaa ttgtaagagt 360
gctaaggaaa tgtgggacac tcttcgatta acacatg 397

<210> 2254
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2254

tgaacaaaa ccggtgagag tgtgacctta aactgtgagt gaacgactag ctatgagtag 60
taatctttgc atgaatctct gaattttaga atgagatgca taaattagga tatgatgaag 120
gccatgattg tacatacaca caagcctttt gacaaaaag cttaccttga atgataatta 180
tatcctttgc acccattttg agctgaatga tattgtcaaa aatttgaacc ctgaatttaa 240
ataaatatct ctagatacct tgcttagatt ctaggagagc atatcgttca aggcaaat 300

accccaaatt tgggggagtg gaactaattg ggatgcaaag aanaagagaa agcgtcagca 360
catacaacaa ataagttgta tgctaaaaag agagagaaga aaagaataaa gtgtgctgat 420
g 421

<210> 2255
<211> 340
<212> DNA
<213> Glycine max

<400> 2255

agcttcttag tttcagatga tactgctgag tttgtagcta cctcatgcac tcctctaatag 60
actatagcat catttatggc gctaaactgc tgggagttgg aagccatctt ctcaattaaa 120
tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180
cttctctcca tattactgag tccttcataa aaatattgaa gaagaagctg ctccgaaatc 240
tgatggtggg ggcaactggc acatagtttt ttaaactcgt ccagctactc atacaggctc 300
tctccactga gttgtctaata acctgagata tctttcctga 340

<210> 2256
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2256

tctcaaggaa gctacctagt atatataaa aagcatgtgt aacactngct ataactttga 60
tgaatgagag tcttgtgaga cacaactcaa agttcaactt ctgtcccttt atcttccctc 120
aatttcatgc tccccctct ctctttctct cctctttctt tttcctccat tgaagcatcc 180
tctccaagct tcttatccaa ggctcatctt ggtggtgaag ctcttcttc catggcttat 240
tccctagtgg atggcgctc ctctcacctc ttctcctttg tcttccgctg catctccatg 300
gtggaaaatc accattaaag gacctcattg aagctcaaag atccagcctc catagaagcc 360
ccataagcaa gctttcatca agtggtaatc agagcacaag agcttcaaga ggtgctcctt 420
aaacctccat taatttttg 439

<210> 2257

<211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2257

agcttattac ttgttgatga ttataacaca tatatatgta tatgaatctt anaataaatt 60
 aggaattaat agttcaaata ataaaattaa attgaaggaa attattatat taagattcaa 120
 tgataaatac ttttaattta ttttttagtt taattattta ttaactcttt gtaattaa 180
 ataatatagt tcgatttaat atatacatgt tgtgtgccat gtaaataatta atactatgtc 240
 atgtgtatat aattcatgag atgtgataac atgttgcttt gggattataa cattatgact 300
 aagattgggt gtatgtgata aattgagtat gtgttgaatg gtaagatacg tgtattgaga 360
 tngtatacgc attaagctat gaactgtaca atcacataac 400

<210> 2258
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2258

tggagaggat gcttcaatgg aggataagaa agagggagag ttagagagag gggcgagcac 60
 gaaattgaag gaagataaag ggagagaatt tgaactttga gttgtgtctc acaagactct 120
 cattcatcaa agttaccaca agtgttacac atgcttctat ttatagacta ggtagcttcc 180
 ttgaaaagct ttcttgagaa aacttcctta agaaaacttc cttgagaagc tagagcttaa 240
 ctacacacac ccctctcata actaagctca cctccttgag aagcttcctt aagaagattc 300
 ctaaagaagc tagagcttag ctacacacac ctctctaata gctaagctca ctttcttgag 360
 atgagaagct agagcttagc tacacacccc ctataatagc taagttcacc cncatgacan 420
 aatacatg 428

<210> 2259
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2259

atgacccttg ggaccgtttg atcatgcacc ctggaccttt cgtccggacc ttatcactgt 60
tctgcagcgg gagctttgag tgactaacta cataactgcg gtggctgatg cccgctttcg 120
tcgggaaact gccggccgac tgattaatga tggctcacgc gaacacctgg ggcgccctcg 180
ctgtaaacag gctatgaagc tatctgacat ggaagaagac acacgatctc tagtacaaat 240
gtcaggactt attctcaagc taaaccctt tttgagcttt cctatattcc acaaaccttg 300
caatgtcgac gtctgtgaaa ttgatccaca tattacctga tagttcccaa actacgcctt 360
agaacttaca tcgctacaga taacacactg cgcatttgca tacttagacc tgcccccta 420
tgtaacaaca tgccn 435

<210> 2260
<211> 499
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2260

aggacaatgt gcnatgata ccctgcacnn atgaaacctt tgatcccatt gaacacncaa 60
tnaccantcg gaacctatgg ggagcgagtg tataacgtgc agaacttata aactcttata 120
cgctcaatga gccgacagca gactttggat ggaaatacta ccgtcagtgt ggacgcatgc 180
aagtgatgat acgtagtccc acggtgtcca actgattatt atgtcaaacc ggcacatcatgt 240
taatgtgtaa tcatgaattt tcgtctgtcg gtccgataga tttattattg aacattgcta 300
caaccccaga tgaaaggcaa acgtacttga aactgctatg acccctactc aagatgccgt 360
gctttttaac aatgtgaggt ggaacatgtc attgccatat gatttttgac cgttggatcg 420
atacgaaaat atcctgaaag ctttatactt aacccatgac catagatgaa gtgtaagatg 480
caacaaaaca agtgcgccg 499

<210> 2261
<211> 386
<212> DNA
<213> Glycine max
<400> 2261

gcttgagaaa tatactaccc catgaagttt atcaattagt tcatcaacag cggaatagg 60

aaagttatct ttgattgtga tggcattcaa ggcctgtaa tctgtgcaa atctccaagg 120
gccatccttc tttttgacaa gaatgattgg aggtgaaaaa tggcttctgc taggggcaat 180
aatcccttcc ttgagcatgt cagctatcat taattacttc aatctgatcc ttccggctgt 240
gaggatacct atatggcttg acttttactg gtccagcacc ttcaaccaat gggattgaat 300
gaatgtgagt tcttctaggg ggtaatcctg atggcaccat caagactggt ctataagtgt 360
aaagtaaaca gttccgcaat ggcattg 386

<210> 2262
<211> 348
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2262

cggagatgca atagtgtctaa ggtttctggg tttagttact ctatattgtg gacaattaac 60
ttgnggtcct gtctttatga tatttaagtt taatgtgcca acctgttaca agttggctctt 120
tggcaaatgt gttaaaaagat atgcatgttg attaatagga acgattcaac acctatagga 180
tatgaagaga ctctaatttt ggtgtattgc taaaatagtg atttctgaat ctgatgcaag 240
gctaactcga tgatatctac tccaatatat atgatataca gtccctcgaac atagaggggt 300
tttggctata aaaatatcaa atattgaaat attatctcat taatatcc 348

<210> 2263
<211> 461
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2263

agcttataag aacanaattg ccttaatcat ttccaaatat gcatgtgaat tatgacgcat 60
caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaatg 120
attataatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180
tttcaaaact atcatgacat gtaaagaaga atcaaggatt tcaagtcaca aaatgtcaag 240
aacttttatt ttcaaaacaa ttaccatttt cttgaacata tcctataatt caaagaaaaa 300
catgcaaagt cgtacgtgca catgaaattg acccaaaata ttaaactgaa aatccgacga 360

aactaacaac attaacaaat taacacaact aacaaattaa caaaaccaac aaaactagca 420
 aaaccaaaga acactccccccc cccatactta aacaacacat t 461

<210> 2264
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2264

tccacttcaa ttcccattcg agtacctaac ggggtgtgatt ttcaaacggt aaaaaccaga 60
 atacacaata cccttaagtt aaccgacaag caacttttgg atgaaattta ctaccggcag 120
 cgtttcacgt atgcaggtaa tcaatttcag tttcaatgta tgcaactgaa agatgatgct 180
 gatgttaaca taatgttaat gtgtaatcat gaattttcgt ttgttggtcc gattgagtta 240
 ttatgtagca ttgctagaac cccatatgat attntaaact tacttgaaac tactatgacc 300
 cctactcatg atgccctgct atattacaat gtgaggtgga acatgtcatg ccaaaatgag 360
 tttgttggtt actcgttcac aggaaaaaat cccaaaaact atgacattcc cacctgatgt 420
 accatggatg 430

<210> 2265
 <211> 433
 <212> DNA
 <213> Glycine max
 <400> 2265

agcttgtagg attatgggat acccatcaca tgtggtacta ggtggcggtc gtgcgatggt 60
 gcacaacaag ttttccacgt ccacaaatcg cgcataaacc caccatcccc tgttgccac 120
 ctccaactga gctcacgtac tcccacgtag ctcatatcct cgtttctctc aacaccgggt 180
 ccccatcaat cctcccaagc ttccccaaca tccaagtaac tcaacattca aacagcaaaa 240
 attatcacag ccaaacaaaa cagggcaaag gcataaaact ctgccccaaa caccaacca 300
 aatcacagct tttctcattt aaagacccca gtaataatc cttcgttcca cttcgttaac 360
 cgggtggatcg actcgaaaag tttactggaa gtctctagta ctttaagccta cattgtgacc 420
 gttgggatct act 433

<210> 2266
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2266

gtatgcccg gtcattcatc cctatgagat gttgatgtag tattggcgat catattttcc 60
 attccttgga ttatagggtt gaaccaagct catgctttta caaaaagggtt catcaagtca 120
 agttgaaata tggaagtaac catcctgcat aattggggca aaagatgaat tgagtcacat 180
 cactgcttcg tctactgcca aacatatnta cgattgttga tgccttgct acttccagtt 240
 tcaccttgac aaagatgtca tggaccatgt tgaaaatcta aattgattca accccatata 300
 ctgcgtaaaa attcgcaatc ttcaactgta catcattcgc atacatccat gcttttcatt 360
 gggtgcattg ctcattgcat tctttccttg gaaaataata taaaataaaa ttaaataaac 420
 ttaataattg ttatcaaaaa aaataaaaaa acat 454

<210> 2267
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2267

agctttttgtg tagcgaatct tctattcctt tataatacaa gttggtcaca aggtgttcaa 60
 ttcaacaatg ggaaggaatt gtccattagc tatttggcca cgaaaagaac acaaagtaca 120
 gtccatataa atataattgt acagcacaac agaaacaaag attgattagc atatgcatat 180
 acactagttt ttttaattga tttgtagcat atatattagt tgaatagtca agtagtcgca 240
 aaaaaaaagg ggaaaagaaa gaaaggataa acggaaagtg gtggtggaaa ttatataact 300
 aaaccaaccc cacatcctac aaaaataaaa gcattttgat aaactttgga gttttttctg 360
 aaggtgtttc ccatggtggt ggngtacaga aatcttttac ggcaattttt aaaaat 416

<210> 2268
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 2268

tccagagagt gggttgccga cgacgtcggt cagtttccaa tgtgccacga aggctctagt 60
taccatgtcc ctctgggagg ccacggagca ccagagacgg cacacgcagc tcgcacgtgc 120
gagatcgatg attggaaggt tctcgaagat gaggcggagg atgtcgggtg aggatagcgc 180
agagaaatga gaattcatcg gtgagattac agtgcaggaa gaagaggtgg aggaggaaga 240
agaggggaaa ttggaattca tgagggtgct gaaaatgtca ccgtcgtctt cgtcgcaaca 300
acaaccatt ggaagtggag ttaagttacg ggagaaaagt agatctttta gaggataaac 360
tttcattttg gtcttacaga acgtgaggca atgaanattt taactttagt tttcanatat 420
gtaaaaaact gtgaaaagtt gataagtata tgag 454

<210> 2269

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2269

agcttaccce ttatgttnta gggtttttat gatgatgctt gtgatgtttg tgtgctgaaa 60
ttgcttatgg aaaactgtta gagatgaagg gtagagttaa cctatgatta gaaagtgaga 120
atgtggtggt atgagtggaa aaagagtgag gctttgagag ttggaaggct aaatctggat 180
tcagtggtaa atatagggtta aaatgagtta atcctagttt taaatgtcat ttaggactta 240
tgagaaagct tgggctgtgc aagagagaaa aacaaatgac caaagtgaag gcaagagcca 300
tttctagggt aaaattgggt gttgaggagt caaattttga ttcggtagag ttttcgtcgt 360
aaaaccagtt tgagcaagtt tagattgatg agatagactt gtttgagggt agaagttgct 420
ccatatttac cccatgctca ttttact 448

<210> 2270

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2270

tgactntggt ttacacatga ttgatacatg atatgggact tgtgtgatct gatttggtgca 60

agattggatg agaggaaatg tggttttcga aatctgcact ttatgcagaa ttttgttgtg 120
aaattgtgta gcagaatddd gcataagtgc agaaaaatgc tatgcgtttg ctgggtgcgg 180
aaagagtagt gcagaatgag ttctggatgt ttgctagtag atcccaacgg taaaaatgta 240
cgcttatgca ctatagactt ccagtaaaac tttcgagtcg atccaacggt taacgagctg 300
gaacgaagga attgttactg ggggtcttta gtgagaaaag ctgtgatttt ggttggtgtt 360
ttgggcaggg ttttctgcct ttgcccggt ttcttggtg tgatagtttg tgctgagtga 420
atgttggtt acttggtgtg tgggg 445

<210> 2271
<211> 358
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2271

agctagagag aaaagatttt ttgatacaat gaatganatt atgtatgtcg aatcaatgct 60
gaaagttgta tagatgggta tatatataat cagttacaac aataattaac ttccaaccaa 120
ctaaactaac tttcaactaa ctaactaact accactagtt ctaaccaact aaactaacta 180
gttaactaac accaagacca cttgaaacaa tgcttgtgc tctctacata tatatccctc 240
tatcatgcac gaggaggagg ctagataact ttatcacgag ggtagagaag aaagaacaat 300
gcaagacaga ggaatgctga tgaggaactt tgagatatgt ctcagctgtt cttttata 358

<210> 2272
<211> 247
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2272

tatcaccttt accagcgatt gaaaaaaact nttagcgaat gtcaagaaca tgaaagtgca 60
ccgatactat taattgggtc gcagattctt aagcgggttg aggacattaa tacgatattt 120
cgaaagaccc aaaagaaaaa agtaaaactt gcatatggaa taagaggtcg atattctatg 180
atcttccata ttggtctaact ctagatgtca cacactgtat tgatgttatg catgtggaga 240
aaaatgt 247

<210> 2273
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2273

agcttggatg ttgttcttgc attatttgcg aagatatgtt actccgcaac caaatttatg 60
 tattatatca gacaggggaa ccagtttgct agcagcttta caatctgaac gtcttggttg 120
 gaatgaacca gatgtttcgt ctgtgtattg cattcgccac attgcatcaa atttcaacaa 180
 acagtttaaa aatgttgact tataaaaaca agtaatcaat atgggtatgt ttcttcctat 240
 ttcatgcac atattcttgc ttattacat gtttactatt tattactcat tnttctatct 300
 tttcgcacat ggtatgagat gaggaacta cgatttgagc taagttgctc gctatgcgag 360
 caaagtttcc acaagca 377

<210> 2274
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 2274

ttgaatctca gctatagatg cccagcattc atacctatag atggagttgt agtattggcg 60
 atcataattt acattccttg gattatatgg ctgaaccaag ctcatgcttc tacattaagg 120
 tacatgaagt gaggatgaaa tatggacagg accatcctgc ataagtgggg catatgatga 180
 attgagtcac atcactgctt ggtctactgc cgaacagtac taggattgtt gatgtcctcg 240
 atacttccag tttcaccatg acataagatg tcatggacca tgtcgaaaat ctaaattgat 300
 tacgccccat atcctgcgtg gaagtttgta ttcttcaaca gcacatcatt cgcatacatt 360
 catgcttttg at 372

<210> 2275
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 2275

tgaactcgt aagctcatat aacttagaca atttttttta tttttgcctt gcgctaagcg 60

cctcactttt gcactaagcg ttattcattg cggtttgtat aaggctaagc gagacttgct 120
cgctaagccc aatagcgtct agtagtcgag tcgcgctaag cgagcacctc tcgctaagcg 180
catgttttaa actgtttttc cctgagctaa gagagtgcct atctcgctaa gccaatatg 240
cagaaaagat tttctgtcat aactcgctaa gcctatgagt tatttctcat aaggcacgct 300
aagcgagcat gatctcgttg agcgccact gtgtttttca gtttttaatg catgctttca 360
atttaaataa aagttagcta atatagtttt aatggttctt ttgtcacaaa tggcttcaag 420
aaaaaggaaa agcactac 438

<210> 2276
<211> 436
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2276

agctntggac tattcaactc anaatctatg tatccaaaac ccctcaattt aatggattct 60
caagggttga gaagtgaana tgagaatggg gtaaatttgg agcaaaactct cacctcacac 120
aagtctataa catcaatcta aacttgctca aactggttnt acgcctaana ttctgccgaa 180
tcaaaatttg actcctcaac acccaatttt accctagaaa tggctcttgc cttcactttg 240
gtcatttggt tttctctctt gcacaagcca aactttctca taagtcctaa atgacatttc 300
aaactaggaa taactccctt taaccttcaa ataccacta attcagattt ggcctttcca 360
ctctcaagtc tcaactcttt tcaactcatac actacatctc acttttaacc ctangtcact 420
atacccttca tcccta 436

<210> 2277
<211> 427
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2277

tctttgatgc tgtaagggtg ttatattgta tgcattgagat atatatgtat tcatttgatg 60
cacacaacac caacaccctt tttgcacaca cggtaggttg aaaaggggcc ctatactcag 120
gccatgggaa cataacgagt ggaagtgaat ctatgggtcat gctgggtctc cgacttgctt 180

gataacagtg aaccctcatc tagagttttt ctctttgata acatattgtt gctggtagtc 240
 cctactgtcg taatatgttt gtcgaagggg atgatacctc tagaaaccat caagagagat 300
 atgaccacct tgggaattat cactaaaagc cttttagttc ctctgttta ggtccctaan 360
 ataggggcac aaagcgaaca cgctgctga tatttacata ctgccatgca tatanatgtc 420
 atgtaca 427

<210> 2278
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2278

agcttgaagg actacgttac acggatgaag gatggtcaga aggacattta ctacatcaca 60
 ggagagagca ngaaggcagt ggagaactct cccttcttgg agagactcaa gaagaagggc 120
 tatgaagtgc ttttcatggg ggatgcaatt gatgagtatg ctgttgga actcaaggag 180
 tacgatggca agaaattggg ttcagctaca aaggaagggt tgaagctaga tgatgagact 240
 gaggaagaga aaaagaagag agaggagaag aagaagtcatt ttgatgaact ctgcaaggtc 300
 atcaaggaca ttctgggaga caaagtggag aagggtgttg tctctgacag aattgggtgat 360
 tcccccttgc gtttggcgac tggatgaatat ggatggagcg cacacatgga gaggatcatg 420

<210> 2279
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2279

tgtgtttctt catcgcaatc tccattttcg atgccttttg tgattctgaa ttntttgtat 60
 ctggccttta ttgtgtcccg aatatogaat ttcctggcta ttgtggagtt tttgcaatgg 120
 tggatatcaac attggcatca gtttttgact ctgtcagtn tggctgtgtc ttctgggtgtt 180
 gcttcccacc tatgtgttta ttatacatgt ccttgctatt acattcacia attacagttt 240
 tatcatacct tgcttttctt tgcaggatta ctgcaatgac cagccccatt attggatatt 300
 cttaaagaac aatggatcaac tttcctacct taactctttt cttgcataac atgaggtgaa 360

acaaaactca acaggtgcaa cttagccaaa agaaattatt gaatatacaa caacttgagt 420
 ggtctat 427

<210> 2280
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2280

agcttgccac ttatctcgcc caggcgagct catttagccc aggcgagtat ggttgcttcc 60
 tccacacgca acagccttct ggaggaatct tctggaggcc ccaagtgggc ctggttgcta 120
 tttgcacccg catttttact aaggacaccc cccgtttcta tttttttgga actctttttc 180
 cgtaacgnta cgaaacttta cgaacttcgt aacgatactt aatttttctt ccgcaagggt 240
 atgaaccctt acgacttatg tatttactct tttttagctt tcgaagaagt tacggaaact 300
 tacggattgc gcaaaaacac ctctttttga ct 332

<210> 2281
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2281

tgcctcanag aggtccagga aggacaaggc ggccgaagga actagttccg ctccggagta 60
 cgacagtcac cgctttatga gcgctgtaca ccagcagcgc ttcgaagcca tcaagggatg 120
 gtcgtttctc cgggagcgc gcgtccagct cagggacgac gagtatactg attttcatga 180
 ggaaataggg cgccggcggt gggcaccact ggttactcct atggccaagt ttgatccaga 240
 aatagtcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgaa 300
 gtccgtgtgtt aggggtcagt ggatcccggt cgatgccgac gctatcagcc agctcctgtg 360
 atatccgatg gtgttggaag agggccagga atgcgagta 399

<210> 2282
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2282

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gctttgggtt gaacctgana tgaacnatga tacatgaata cggacctatg aaataacctt 60
gtgttatatt ctctgatggt tcattgctct taacgaagtt gagcggttaa ttcgcttgta 120
cagaagacta tactgagctc acgtagaatg tgcaaagca tgtacacgcc ttgagcgatt 180
gactcatcta cttactagag cccacaagc ttatatatag catgtcccag ccgatatcaa 240
agggtacttt acacgatgac atgtgatgca cgagagccca ctctactaca tctgccttga 300
cagtgtaccg cactgtgaat gaggaagaac acatttccta ctagcactag aaagaaacat 360
agatagaatc tgtaagcgaa aatacctgaa agaacctccg catgcttgct gacatatgta 420
tggtagatcg cacatgtact ccatggtaca ccgtgaatga tgacctccc atatgatctt 480
ct 482
```

<210> 2283
<211> 331
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2283

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agcttccttg cacatatnta attattaaat ataaagaacc aatgcacaag tatgctagac 60
aatccaaata attgccacca cttanacctc ccaattattc ttcaatttat aattataacc 120
aacatacagt ataaatatga tgattaatac atttctatgt agtattttat gacttaaaaa 180
gataatttta atgagatatt agaaaaagtt ctattgctaa ttttaaggat ttttaaagaa 240
ctaaggagct aggaatcatt agtagtgac cctaagctaa ggggtgtatta gactaagtgt 300
agtgggtata agcaagataa tataatacat g 331
```

<210> 2284
<211> 220
<212> DNA
<213> Glycine max

<400> 2284

```
cctttgcttt gaaagattga agaaatctag atctagtatt gttatgaaca tttcaactca 60
acaacttaat cccagctggt ttgaaataat aataatactt gtcactcata aaaatattaa 120
```

tgcaagttgc atgacattct.tgtctgtctc actatgaatt accttaatga cctctgcata 180
agctgggtga aaaagatctg taaacagatt tgagttatat 220

<210> 2285
<211> 399
<212> DNA
<213> Glycine max

<400> 2285

agcttggtact tagttgaaat aaacatttta tagtcatgta tcgttttgaa tatggcaatt 60
ttgcattatt ttccccctca tattgggttcc taggagtgtt tttaagtga acagaaatag 120
taggcaaatt gtatattgac atggaaactt aactgttttt gtcgccgttt atctggctct 180
acaatgtctg aaccattttg tttgggttaga tcatagatta atgtttttgg gtgtcatgca 240
ttactatatg ttcagtttgt ttgttttttt aaagtatatt ttcagtttgt gttagtgtatg 300
caatgaaaaa ttaatgattg aataaaacta atgagaacaa aattgtatct caatgactgt 360
gggttgccggc tacggaatag cctcgactcc attagaaca 399

<210> 2286
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2286

tgtgcccnc cttctccaac tcacttgagn ttactttaag catatacctt gcttgttctc 60
ttcactcata ttcttacttg agcgtcagag tcttctatct tgcaccctct ctccagctca 120
cttgagtttt acataagcat atacttggtt tggtctcttc actcatattc ttacttgagc 180
gtcagagtct tctattttgc aggtcccccc tctatcaaa ggtacctctc caagatgaca 240
tgtgaagttc gagacccac tcaactacgt ctgccttgac gtgtcatggt tttggatttt 300
ggtaagaaca caaccctcac ttgaacttga aagaaagata gagaaaatag ataaggaaaa 360
atacctaaat gaacctttgc ttgcttgctt agatgtgaat ggaac 405

<210> 2287
<211> 450
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2287

agcttgtcca tggtttagac atgattgata catgatttag gacttgtagg attcaatttg 60
ggaaaaattg gatgagggca aatgtgattt cgaaaatctg cactttatgc agaattttgc 120
tgtcaaatat gtgcagcaga attttggctt tgtgcataaa atgttgtgta tttgctgggt 180
gtggaaagag tagtacagat tgtgttctgg atgttttcta gcagatccca acggtcacia 240
tgtagactta tgtgctagag acttccagta aaattttcga gtcgatccaa tggttaacga 300
attggaacga agagaatgtt actgggggtat ttaagtgaga aaagttgtga tattggtttg 360
tgttgggcag agttttctgc ctctgcccta ttnttccttg gtttgatatt tcatgatgtt 420
tgggatgttg aattgctcgg atgttgtgga 450

<210> 2288

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2288

gaaatgacaa taactntata cacggatgtt ctgttgagtc ccgtttatat cgagacgctc 60
aaaattttaga tccgaagctc tgaaaaaatt gaattgacaa taactttata catggatgtc 120
cggctgagtc ctgtaataata tcgagacgct gcaaattgaa aacggaagct cgtaggaaat 180
tcaaacgaca ataacttttt actcggatgt tcgattgaat cgggtaatat atcgagacgc 240
tcaaaattga gactagaagc tctgagcaaa tttaaataac aataactttg tacacggatg 300
tccggctgag tcccgttaata tatcgagagg ctccacattg agaacggaga ctcttagaaa 360
attcaaacga cactatactt ttactcggat gcccgacaga gtgtcgt 407

<210> 2289

<211> 407

<212> DNA

<213> Glycine max

<400> 2289

agcttcaggc tgctcgattg ctccaggttg ctgcatggaa gggcaaaggt ctgtatggtg 60

gtcagcagag gagcacaaac cacaaaccct tgcaacaggt acaaatttct gattcaaggc 120
 cagctgggtt accaagttaa ccaatgcac cagtttgctt tcaagcttct tagtctcaga 180
 tgatgcagct gagttttag ctacctcatg cactcctcta atgactatgg catcatttct 240
 ggcgctaaac tgctgagagt tggaagccat tttctcaatt aaatttctgg cttcagcagg 300
 agtcatgtct ccaagggctc caccactggc agcatatata atacttctct ccatattact 360
 gagtccttca taaaaatatt ggagaagaag ctgctccgaa atctgat 407

<210> 2290
 <211> 454
 <212> DNA
 <213> Glycine max

<400> 2290

tgcttggtga gcttctatgg aggtgggac tttgagcttc aatgaggtcc tctaattggtg 60
 attttccacc atggagatgc agcggaagac aaaggagaag aggtaagagg tggcgccatc 120
 cattagggaa taagccatgg aagaaggagc ttcaccacca agatgagcat tggataagaa 180
 gcttgagag gatgcttcaa tggaggaaaa gaaagagga gagaaagaga gaggggggag 240
 cacgaaattg aaggaagaaa aaggagagaga agttgaactt tgagttgtgc tcacaagact 300
 ctcatcacc aaagttacaa caagtgttac acatgcttct atttatagac taggtagctt 360
 ccttgagaag atttcttgag aaaacttctt tgagaaactt ctttgagaaa acttccttga 420
 gaagctagag cttagctaca cacacccctc tcat 454

<210> 2291
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2291

agcttgagct tggtaacccc cgtaatccaa tgaatggaaa ttctgattgc caatacttca 60
 acaacatctc atagggatga atgactcggg catacttttaa gcttatgcac ggaaaatgta 120
 attatgaaat tgagatgccc gaagaaacac catttcttag ttaaccatgc attaggtacc 180
 atgttcaatt attttgtttt ggtgttgtgt gtgttttttt tttagaaatg ggtttatgat 240
 cccaacatgg ttggctcatg gtgcctaaca catgcaacta agaatgtagt gtgaagtttc 300

acgcttcccc ttttttgttt tggttttagt aggaaaacgc aaggatgagc aaacatgana 360
 acaaattgga tccaattntg cagatcaaaa agtttgttga acgcatatgc atgatgatgc 420
 catgactcat gcaaaa 435

<210> 2292
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 2292

tcaagtgaac tagggagcag ataagaagtt ctcacccggt atgtcgaaag ctagaaagag 60
 gagcctaggc aaaagttagg gaaataaaaa aggaaaaaaa aaataggggc gtgttatcaa 120
 aggttttgtc caaaatctaa attgtaaaag tctctagtca atatttgaaa tgacacatgg 180
 tcatgcttca ttatcccaaa cactaattta tcccttggtta ccccttctga gccaaagcat 240
 atttgttttc ttttaaaaca acaacaacaa caacaaaaac ccgtagtagc aaccaccgct 300
 gagccggcgg gaagagcaag gcaaacaatca tatgcatgag gtaagctcta tgttgggcaa 360
 caatgatgtt aaggaaaaaa agcagaaagc atatctgcca aaggcgagca aagcaaaaaag 420
 agacaaaaga tc 432

<210> 2293
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2293

agctttcana ttaaagtacc aaagtacaca acataaacta atacctacta aatataaatt 60
 agtcatatcc aactacacat cctaataaca aaataaaaca agaaatgagt cttcactttt 120
 cttcattttt atactagatc tttattagca gccttccttc tagtgaacct tgggtgttggc 180
 atgaaaagta aggggtgctgt tgggtgggcca tccacaacag gtgcgtctac tgttgaagtg 240
 tctgaaatgt tcttttgttt gggcttctt atgttttagct tataccttgc tactgggtga 300
 acatcaacaa taggtgtagg gacctacatg caaatgccaa acatgaataa cacttgcaat 360
 atatataaa 369

<210> 2294
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 2294

tgtaatggta agaaaagagc aacacacaca atcatcta atgcagcaag tattaataaaa 60
 aatagtaagt ataaaataaa agtgtgtgct gccaatgaag aaaaagaaaa gctaagtgcg 120
 gaaaagcaag taatagagct ggaataaaaa gaaaaggtt gatctaagga tgaatgctct 180
 cctagaacct aagcttttgc atcctagaaa aaccatgaat tgtttgcagc ccagcctcgt 240
 tacaagccta caaaagtcct tccaattcag tttgtgtgtt cttgactgta tggcatgaga 300
 tgaattgcaa agattgagac ttttgttagt tgtggattgt tgaataagcc taaacacttg 360
 tgcttgaggg aaacaatgac tgtgaggatt tggtaacga tccttccttg atatctgtca 420
 tgcttaccag cttatttcag c 441

<210> 2295
 <211> 267
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2295

aaataggact aattaatttg ggagacgcta acctatacca acatacatat cattaagcgg 60
 caactgtaac cataattgat tgatgtaacc accagttgca attattgatg gttattccaa 120
 gtattgacca ataanatcac agtctataat tgcgaataat tcctcaatat ttcccagcac 180
 atatgattgt taattggtac gtggcactaa attcttactt ttcttccct tgctacttt 240
 gacttgtgct tgtgcaacaa gtgatga 267

<210> 2296
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 2296

tgaaggatta taactgtttc agtattatga tggacaacat gttcaagta tcatagctta 60
 caacattttc tttttctgga tgcagcgtga actttaagca atgtatactc gtaccataaa 120

aaaaaaagtt ggactgtctt cggaaaatga ggcacaaaac cttgaggcac tgtttgagtc 180
 cataatcaga ttcagatgcc tccctggacc aattattgac gaagataaag cactacaaat 240
 gtctgttaat gttgtttgtt atatcacttt tcttgatatt gcttatttca gtgttctgat 300
 ggatggggtt ttttacattc ccaattttct gtatagtgtc atcatgccaa ctcattagcc 360
 atgtaacaat tagtatcatg tactagtact aaagctagtt cttattacca tggacatgct 420
 caaatgaaat c 431

<210> 2297
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 2297

tgaaggtttg tacatgacca aatctttagt taatcttctt tacctaaagc agtctttgta 60
 ttcatttaaa atgcatgaag atagatcagt aggagaacaa ttggatttgt ttaataagtt 120
 gattctagat cttgaaaata tcaatgtcac cattgatgat gaggatcaag ctttgctatt 180
 gttgtgctct ttgcctaaga gttactctca tttcaaagag actctactgt ttggaagaga 240
 cttcatttct cttgatgaag tgcaagctac tctgaattca aagcaattga atgaaagaaa 300
 ggaaaagaag tcctctacaa gtggtgaagg gctgacagca agaggcaaga ctttcaagaa 360
 agatattata tctgataaga agaagc 386

<210> 2298
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2298

agcttgtagt ttattcaaac gacaataact ttatacaagg atgtccgatt gagtgccgta 60
 atatatcgag acgctccana ttgaaaatgg aaactcgtag caaattcgaa cgacaataac 120
 tttttactcg gatgtccgat tgagccccgt aatatatcga catgggtccaa attgaaaacg 180
 gaagctcgta caaaattcaa acgactataa cttttcactc agatgtccga ttgagtcccg 240
 taatatatcg agatgtcca aattgagaac gggagctcat agcaaattca aacgaccata 300

actttttact tggatgtccg atggagtccc gtaatatatc g

341

<210> 2299
<211> 401
<212> DNA
<213> Glycine max

<400> 2299

cttgagcaaa ttgaaatgac aataacttta tacacggatg ttcggttgag tcccgttaata 60
catcgagacg ctccaaattg aaaacggaaa ctcttataaa attcaaaca caataacttt 120
ttactcggat gcccgcacaga ttgtcgtaat ttatcgagag atgctccaaa ttgaaaacag 180
aagctcgtat caaattcaaa cgacaataac tttttactag tatgtctgat tgagtcccgt 240
aatatatcga gacgctcaaa attatgatcc gaagttctga gaaaattgaa ttgacaataa 300
ctttatacat ggatgaccgg ttgagtcctt gtatatattg agacgctcgc aactgataat 360
ggaagctcgt atgaaatgta aacgacaata actttttact t 401

<210> 2300
<211> 168
<212> DNA
<213> Glycine max

<400> 2300

tgcgtttata cgatgcgtgc gccttcttgc cccgagacgg agccacaaca ccttttattc 60
atgccgactg ctcaggccat gcctacggtg acgtccatgc cagctccgtt acacaccccg 120
caccctgca accaagatcc gaattactac cggatccact gcccatgc 168

<210> 2301
<211> 296
<212> DNA
<213> Glycine max

<400> 2301

gctttgaata tataaataaa taatgacctg taacatcaac aaagacatca tcactttttc 60
gccagtgctt tcgatgggtg cgatacgtaa agatagcccc aagacacaga atgcaaattg 120
ccacacttgc taacgacatt ttgcaatttg atttgtgggc tgaagctgca agaagaggca 180
aactttaaag agctacctag ctaatcgttt ttattttcat tttatttcta gatcttattc 240

ttcaagttaa attacacatt ctttaatatg taccataaca taattacacc ctcctt 296

<210> 2302
<211> 314
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2302

taactgtaat gaattataac ttcatactac gagtgcgagt ttattattcc catattttct 60
ctactatgat gttctatatt cagctagtag atatttcaat gttcttcaag tgcattttatc 120
cctaattgtg ggatcattca ttattggaaa atttggaata ctgaaaaaag tttgctactt 180
acaggaaaac caccattcat gtataacatg ggacggcttg ctgaatactg cagtgtgcca 240
acctatggag tgtctgtatt accagactca ttgccatata cagagtctgc aattctaaga 300
tgtgctgtgn ttac 314

<210> 2303
<211> 503
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2303

attgaacccc ttgagacccc gngatcctca gagtcacctg tggctgcagc tncatggaat 60
caactagatg ccctacttct aaaaatggct aatccgatna ccaaccaaca atacccatct 120
ttttccttcg tgcaagcacc atcggccgct tccggtttcta ggggtgggtgc gccttctttg 180
cccgtgccgg tgcaacaaca ccaattatcc atgccgactt cttttgccat gcctactttt 240
gccgccatgc caactccgtt tccacacccc gcacccttgc aaccaagtcc cgcattcatta 300
ccggctccac ttcccatgcc agctctgcat cttcccgcctc tcgatcacgt ttgtgctgct 360
attcccattt tcgacaacct cttcagtact gtccttcggt atggccatac aacagctcct 420
catgccaaagc atggagaaaa tatagacatc gtgctgggtg agctgggacc tggatntttg 480
ggactatatg gctcatgcaa gcg 503

<210> 2304
<211> 462
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2304

actcagctgc ttctacaatc tccnctttt tgatgatgac aacttctgtt atcacgaagc 60
actttcacac acacacacac tnttcctagt cgatcactct cataaatttc cattctcccc 120
ctttgttttt gaatttatgc ttctcttaaa attaagttga ttactcatgt gacttcttga 180
tttaatccct atttctctcc ccctttggca tcaacaaaaa gccaaagtgc gtaacaaatt 240
tgaagcatgc aaatacaact aagcatccac acaacattca tgaaaaatat aaaccaaadc 300
atgaagcaag aactatgagg caagaaccac gaatataaaa tccacgtagt caaataacat 360
aattaatatt tggtcaaaca tactatgcaa ataaagaaat agtaaattgt tcaaatatca 420
tcataatata gattatttgg ataagtcact gacatctatt ag 462

<210> 2305

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2305

catgcaagct ttataggtga aatcaggtgc agccattttc cttagagtgt aacagtgtan 60
gtttgaacta cagctaccct tanatgatat ccaaagact tgaaattttg tgagcaacac 120
cctaaaacca tgaaaagata gcacaaaatt ttcagacaaa aattcaaagt ctaactatgg 180
aaactaccta aggaaagttt agaaaaataa aacaataaaa cttgaaaaaa aaaactggta 240
aacaggtgat tttggctagc tagagacctc agccaaactt tggctggctg cagcagtatg 300
ggaaattttt ttctaccca aatacatata taataatagt cattctgata cccggagcaa 360
aagttatggc cgtttgaagt tntggtaaac acaagttctc aaattttttt gaatctc 417

<210> 2306

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2306

tcntatttaa atttgaacg tcttgatata ttacgggact ctataagaca tccgagttaa 60

aagttaatgt cctttgaatt ttctcggagc ttttgttttc aatttggagt gtctcgatat 120
 attacgggac tcaatcggac atccgagtaa aatgttattg tcgtttgaat ttgctcagag 180
 tttctttttt aaatttcgag cgtctcgata tattatggga ctcaattgga catcggagta 240
 aaaagttatt gtcgtttgaa tttgctcaga gcttctgttt taaatttcga gcgtctcgat 300
 atataacgag actcaataag acatccgagg aaaaagttaa tgtcatttga atttcttcga 360
 agcttctgtt ttcaattttg agcgtctcga tattttacag gactcaatcg gacatccgag 420
 taaaat 426

<210> 2307
 <211> 364
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2307

ctcggatgga tctcatgcta tgatttatcg nattggtgat tcaaagtcag tctcatacca 60
 ttggtgggtc gaactcaaat cgtgggtactc cagggttcgtc taacggcatt ccggttactt 120
 tgattatgac agtttctgca attcgagaca tttctttggg ttttccgcat tttgatggca 180
 atacaccggt cttggagtgg atcttcaaag cagagaagtt cttcaattat cataacactc 240
 cagatctgga tcgagttgat attgcttcta ttcattttga gaaggatgtg attccttagt 300
 ttcagatgtt gcaacggatg caagttgtga gcatttgggc tgagttaaca cgtgctttgg 360
 aaac 364

<210> 2308
 <211> 456
 <212> DNA
 <213> Glycine max
 <400> 2308

gcttatcccc taatgcacct attccattcc tcccattggc atcatcacca taaacagcaa 60
 taacctctct ccagccaaag tagttaacaa agtctgctat tgcagtcatt tcataaatgt 120
 cactaaaagc agttctaata aagaatggga attgaagtga agaaagagta gggtcagtgg 180
 ctgtaaata tagtagagga acttgagct cgttcgctat atgagatatg acatgagctg 240

ttgtagacgt ctggggaccg attatagcca cagtttgtgt tgccatgagc tgcaaggcta 300
 ttacacacaa tttatgtaaa ccaagagtaa taatctgcca aactttgaag taacttgtct 360
 aatagaaaaa aagatgcttt taaagtttta acacataaaa aagatgggaa tattgtgaag 420
 gacgtaccct cggcaatgct cagaaaacct ctgtat 456

<210> 2309
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 2309

ttcttaatca aaactcaata gtcattatta aaataatc tatctagttg atccgtcatt 60
 gtgttttgtg gttgaacttg ttcttcttgt attcaaggat ctgttgtgca ataagatcca 120
 actcattctg gggatggcca ttgttaacat ttctatattc atccatttga taagatgaac 180
 tatgtaagtt gaactactgc atatgttgtg gttgtgcatt tcatgtggct gcactacaaa 240
 atttggagga ggaggtaaaa cccaattatg ttgattaatg tagggagtaa caatcatgtc 300
 aatgtctttt aaggttgtgt catggatgct tcttcttttc ctctttttct ttgaggcatt 360
 cttgccgtta aaagtacttt tgagcatgac ttgtaact 398

<210> 2310
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2310

tctgcaagct ggaaccattt atcctatctc cgacagccaa tgggtgagtc ccgtctctgt 60
 agtcccgaag aaaaccggcc tcaccgtgat aaaaaatgag aaggaggagt tgattcctac 120
 tcgggggcag aacagttgga gagtctgcat cgactatagg aggctgaacc aggttaccaa 180
 aaaggaccat tttcccctac cattcattga ccaaatgctc gaatgcctgg caggtaaadc 240
 tcactactgt ttccttgatg gtttttctgg ttatatgcaa atcactattg ctctgagga 300
 tctggaaaag accacattca cctgcccctt cggcactttt gcctatagga ggatgccttt 360
 cggcctgtgg aatgcccctg gtaccttcca gcggtgcatg atcaatattt ttagtgattt 420
 ttacaanat tgcatagagg tgtttatgg 449

<210> 2311
 <211> 142
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2311

gctgcanaat cccttnttgt tgggtgtgtgt ttttttttgg tttgtgctaa aggtggtcct 60
 cgtcattgga agtgcggttag acaggccttg tggttgattt agggatggcc tttgtggata 120
 actgggtggt gggtaaggag ga 142

<210> 2312
 <211> 448
 <212> DNA
 <213> Glycine max

<400> 2312

tagagttaag tctcgtatcg gtttaatcga ttatcgatat ctcataattg attacactgc 60
 tgtttgagac aatgattgat ttagtcagga gtctccactt taatcgatta ccaagtggat 120
 taatcgatta cttctctctc gtccatgtgt tcagagggtga aaaagaacac tttaatcgat 180
 tacataggtc atctactcga ttatattgtc cttgagttgt tttctagatg ttggatgaac 240
 actttaattc attacttaga taatctaate gattactttg ttaaaataat cgattacctt 300
 atagatttaa tcgattactg acaattataa ttgttttctc tataaataac cttatgtag 360
 acctgtggc ctcaataatc ttaagagggga tagacttaga atgctgaaga agcagcaaca 420
 atcaatttaa taatgttctt taaacatg 448

<210> 2313
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 2313

agcttgccac tgtagcagtt aagggaacaa atgaagtgtt attaactaat aagatttcct 60
 gcatgttatt aactaataag atttcgttac tgctttcagc cctttgatga tgattatcgt 120
 agccatcatg ggtgccttca tcctttcaga aaaaatatat cttggagggt aagtactcaa 180

tactcatatt cactcccaat gaacatatct tgttttaggc acaaagaaag aagcttaaac 240
 gttttaattg actcactctt gtagcataaa ctaaaagttt ggtgtttctt acataaaagt 300
 tgaacatga caatcttaaa aagctatagt cattagagca tgtaggaac tgggctgatt 360
 t 361

<210> 2314
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2314

tgacatgcta ttgaacaagc agttatatac tctgcttcac ttgtagagag tgcaacaaca 60
 tcctgtttct tagagcacca ggagatggga gcacctcaa acaataaaac atgccccatt 120
 atgctttttc tgtcaagaac atctccacca cagtctgagt ctgaataagc cacaagttgt 180
 ggctcaacct tctctttcta atgtggaaat agaacaccaa agtctagtgt gctctcaagt 240
 atctcagtat ccttttagct accatcatat gtgaatgtct tggatcactc ataaacctac 300
 tgataactcc cacattgaaa gtgatttctg gtctggaatg acaaataaat ctgagactcc 360
 caacaatntg cctatacaag gtacaatcca ctacaggttc agctttacat tta 413

<210> 2315
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2315

agcttgcttg tggagcttct atggaggctg gatctttgag ctntaatgag gtccttcaat 60
 ggtgattttc caccatggag attcagtgga agacaaagga gaagaggtga gaggaggcac 120
 catccactag ggaataagcc atggaagaag gagcttcacc accaagatga gccttgata 180
 agaagcttag agaggatgct tcaatggagg aaaagaaaga gagagagaga gaaagagaga 240
 ggggggagca cgaaattgaa ggaggaaaag ggggagagaa gttgaacttt gagttgtgtc 300
 tcacaagact ctcatcctc aaagttacaa aaagtgttac acatgcttct atttatagac 360
 t 361

<210> 2316
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2316

tgtgtgcatt gtatacgcta gaatatgttc tgttnttggga tgctacattt ctaattgcaa 60
 ctgctatgaa atcaatgatg ttgacaacaa caacaacaat tgttgttgcc tcttgggaaca 120
 ccgcgagttg tacaagaaaa attattgtct ttatgaagaa tcaacttcaga agcgtgtcac 180
 aagatcaggt cctattccca aggctagtaa taacaacaaa accggtgtga tacggttctt 240
 gaaccgtgac ggtgaagttg ataggccaaa gagtagcgtt aataataggg ttttgaggct 300
 ggcgccgcca tcgacggtgg gcggngcggn gctggcgggtg aagtatgcgg aggtgatttt 360
 gtccgcagag cagtggttgc acgctccggc aacggtggg 399

<210> 2317
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2317

agccaaaaac tttaacaatg accanagcaa gacatctaca ttcaacttca gtacttgagt 60
 gtgcaacaac aaattgcttc ttagaccact aacagatgag attggggctg aagaagacac 120
 aagcgtcgaa ggtggaccat ctgtaatctg ggtcagacgc ctagtcagca tcacagaaag 180
 tcacaataga aaaaaggtgc agaagcaagc ttgaaatgcg agccccacga gatggttccc 240
 ttgagatacc gcggtatccc cttatggtat catagtgtaa cgccctgaaa tttcgctaac 300
 tggaaatcga ttttaatgta tttctcatct 330

<210> 2318
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2318

acattntagc ttcaatgcga gaagacatac tcatggctag gaatccaaaa tttggtttta 60

gagttagaaa agcatgaaaa ttaggacttg cttgtgagag tttttactcg aatttgggct 120
 gccccatgat cgatactttg cacctaagtg acgtgggaaa tgcttttcaa tggatatgtg 180
 atatatgtgg ggcataaaat tccttgccaa gtgtgaatga ttattttcct aaatgaatgt 240
 atgatagcac gtaattccct tttgaatgca agtgtgtgca taatgtaaat agcttgccaa 300
 tatgaataaa tgtgagtga acaataaaat ttgtatgata tatatttcan atatatgtan 360
 gtagttggta atagcaaatg tttaggatat aaattagggtg tgaattttga cgcaatgcct 420
 tgagcg 426

<210> 2319
 <211> 226
 <212> DNA
 <213> Glycine max

<400> 2319
 aaaaccagc cgaggcgctt cccgaacgtt tctggtacgt ttccgggagt aattacgcga 60
 agattctcga ccgttcttca acattcatcg ttccgtcttc gttttcttca gcttcaacgg 120
 gtaagtacct ctaaccgagc ttttctatta ttttatgtac ccgtgggggc cacaatttgt 180
 tcatgtattt tattctcgag tcattcgttt tattccccct ttgacg 226

<210> 2320
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 2320
 tctagaaccc tagcttggtc caaaaatcaa accacatggt gattaagtta tataaaatat 60
 tttttattta actacatgtc tttaaattta aatctttaa atataatcat attaaatatt 120
 tagagaaaga attttaccgt gtataataac tctatcgtct atgattttta ttcacaaaag 180
 atttcaatcc taagagcaac ttaatagaaa tacactacac tacccaaata tacatgggtg 240
 tatctagctc gacagatatt tatcaaaata ataataatac atgtcgtctt aatcttagat 300
 tattattgat tatgtaggct ctagcttctc ttaatatatt tcctatcatg catgtttcct 360
 ttgttgggtg tgttgggtgt gttattatta ttattattaa tattattatc atagaatatg 420

<210> 2321
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2321

agctatgcat ctcatatctc ttccgcaggc cttctctctt gccgagctac atgaggataa 60
 gttggaggac cattgccgcc cttaccgacc tcgtcacaca cccatcacca ccactgcgct 120
 accagagcga gctatcttac cttcaccacc caacctggcc tgcacccctt cccattccag 180
 accccaagtt aaacatctaa ccccatgaga aagggcccgc gaacgcgaac aaggcctatg 240
 ctataactgt gacgacaaat aagggcccaa ccatcgntgt cgcgctcatt tctttntggt 300
 gattgccgac aatcctagca ccactatccc actcgaaacc tatgttacca naccacctat 360
 cccaccttct tt 372

<210> 2322
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 2322

tcaagtaaga accttgaacg aaaatgagga agatataaga cgaaaaaaga ggtttaaggg 60
 cttcttacca aggctttgag agaacaagtc tcaaaacact aagatagagc tcgcattacg 120
 acgaaaatgg tggcctttcc ctccttgagt atctcgtgaa aatggaacag aatgacagtc 180
 caagttgtga tttttgaaa gaaaatgggtg agaaacgatg gaaaatgatg caaggctatt 240
 gatgtattag attgacaagc ttaaatgacc atagtatagg ccatcttggga catgtcaatg 300
 ctagccataa gtaagtagtt taggttttga attttttagcc aacaatggta aaaaattggt 360
 tttaatgaaa tagataaatc atatcttaaa tgtctagaat aac 403

<210> 2323
 <211> 298
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2323

agcttcanag gactaaccgc ctgagatatc ttttgtttcc ccttcacaaa gtttcaaagg 60

actaaccgcc tgagaacttt gtcgtaacac attggagggt acatcctttg tgggtacaagt 120
agagggtaca tctactgggt tgttggtgact gagaacaaga gaggggtacat ctcttgtgga 180
ttagttcaag tggagggtac atccacttgg ttgttcaaag agaacaaggg aggggacatc 240
ccttgtggat cttttgcttg aaaggatatt accaggttga aaagaaatct caatgact 298

<210> 2324
<211> 248
<212> DNA
<213> Glycine max

<400> 2324

tctaaggagg tgagcttagt tatgagaggt gtgtatgtat ctaagctcta gcttctcaaa 60
gaagtattct ctaagaagct actcaaggaa tgtttctcaa gatagcttct caaggaagct 120
acctagtcta taaatagaag catgtgtaac acttggtgta actttgatga atgaaagcct 180
tatgagatac acttcacagt tccacttctt tccctctttt attccttcaa tatcgtgctc 240
cccccttc 248

<210> 2325
<211> 357
<212> DNA
<213> Glycine max

<400> 2325

ctttagctat gtgtgctgat gttggctaca cagatagagc atctgaaatt ttttatgaaa 60
tgaaaagttc tgggacttgc cagcctgaca gttggacatt ttcattcatg attaccatgt 120
attcccgcag tggtaaagtt tcagaggcag aagggatgtt gaatgaaatg atccaatctg 180
gatttcaacc tactatTTTT gttatgacat cactcatctg ctgctatgga aaagcaaagc 240
gaactgatga tgttggtgaag atatttaaac agctcctgga tgtgggcatt gttccaaatg 300
atcacttctg ctgttctctt ctaaagtgtc tgactcaaac accaaaagaa gagcttg 357

<210> 2326
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 2326

agctngcagc tattagaaga gaaagaacat gtgattagaa atatgacaga atatgttagt 60
tagtttgtca gatggattgt gaaggaatgc attaaccaca tcccgatgag agtgtgatcc 120
ttaaattntg agagcaacaa ctattattta gtactgattt ttgcatgaat ctttgaagta 180
tagactgaat gcatgaattg aggatgatga aggccatggt ttgattgtga tagctactta 240
gccaaaaaga tgaccttgtg cttgaatgaa ttatccctta tttgagttga atgaattatt 300
gattggttga accttgagcc tatacagtgt tatctcctac taccttgtct taggtttag 360
gagagcatca tcaacaaaaa gcttgggttca aagaanattt gtcccanatt tggnggaaaa 420
tactgggtaa gaattgaaat ggtccaagta aatagcatg . 459

<210> 2327

<211> 456

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2327

ataacgcttt catctcttcc accaatgtag agaacactct tgctgtatgt atgtgtgtat 60
attntgttnt tctttntaaa aatttatata tatatatata tatatatata tatatatata 120
tatatatata tatatatata tatatatata taaatctatg aaaaattgta caatccacag 180
gtttatcggc ttgaacggtg gaaaagctga accgctctat aataaaaaaa atattaaaaa 240
agtcaaagca agatattgga ttcaaagtgt gtgtacatac acgacaaatt ttcaactgca 300
cttcgctctt ttaatgacac ttttctatgt gtctgttacc cgcaaattaa gcgcgaaaat 360
gacatagagc gtgtgaatat aaattatttt gttttgcttt atacaacatt gaaaagacca 420
acataggtta tcatgtatgt atctttgaga tataag 456

<210> 2328

<211> 430

<212> DNA

<213> Glycine max

<400> 2328

tgatttctat acaaaagtga ttcatgtaaa gcgactaaca tactccccca aatttacaat 60
tttacttgtc ctcaatcaaa gaaagaacag ttcacttgtc ctcaagtgaac aaagacaatg 120

gccaatcaaa agaaaatggt gtttgattca tcaaggacgt caaccatattg aactgaatac 180
catggaatgc ttaaatcaat tacttctcac aagcatgcag ttttttcaaa gataagagca 240
caagtattag agtcacagct gaaataagct agtaagcatg agaaatcaag gaaggatcat 300
caacccaaaac ctcacagtca ttgtttcact caaactcttt tttggcttat tccatcataa 360
acaaccagca cgagttccaa ccttttgcac taatctccta tcatacagta atgaacacac 420
aaaaatgaat 430

<210> 2329
<211> 445
<212> DNA
<213> Glycine max

<400> 2329

tgaaggtaaa ctagatgcct tgggttaacct ggtaacccaa ctggccatga atcaaatac 60
tgcacctgtc accagactct gtgggtttatg ctctctgcc gaccaccaca cagacctttg 120
tccttctgtg caacaatctg aagcaattga acagcctgaa gcttatgctg caaacatcta 180
caatagacct cctcaacctc aacaggaaaa tcagtcacaa cagaacaatt atgacctctc 240
cagcaacagg tacaatcccg ggtggaggaa tgatcccaac cttagatggt tgaatccttc 300
acaacaacag caacaacaac cttattttca gaatgctgct agcccaagca gaccatatgt 360
tcctccacca atccagcatc aacaacaata acaacaacaa cccagaaac agcaaacaat 420
tgaggctctt ccgcaatctt ccctt 445

<210> 2330
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2330

acccgctgca tgctgtctnt gtccgcanat cctcattta agactacacc caatttagac 60
aacctcttta ggttttagact aacttaaact gagtntgtc cgcagatccc tcatgtaaga 120
ctagactcag ctcaggtagc ttactaaagt ttagcctaag ctgtgttcgc agatccctca 180
tgtaagacta ggcttaaact aaacagcata attggaacaa cataattaan accaaaactt 240

aacacgcaga tccctcatgt aaggctaagt ttcaatacta cttcaatcaa gttctaaagc 300
aacagtacac tttccaatgc taaagtcacc taactgtgca cacaaatggg tgatcagacc 360
aaaagcatac aaacattaag cattgaacaa agaagacata atanattaga tattaggtat 420
ttacatcatt nggtcattag aaatccctaa ctatgggggt tagctagcca ttac 474

<210> 2331
<211> 447
<212> DNA
<213> Glycine max

<400> 2331

gactcaagga gagacttaga atggccttat agtagagttt aaaaaaacta taaaaaaaaa 60
gactcaacaa acctctagct ttggcccttg tttttcacac taattttcaa tttaaattta 120
ggaactaaga ttggtataaa ataggaacca attatagaat aaattgtgag ccaaaacaac 180
aagcacactt ccctttcact ttttttttca tggatactga tttttctgct aaattgtgtg 240
attttttagta ttttttcctt ttattcaaat cacttggttc ttttattatg actttttttc 300
ggatgtctag aaaattcagt aaaactttca gtcctcaaatt caaagtaacc aattctcagt 360
aatttttaca agtttgtatg tcccagttgc cagcacgagt gatttttttt ttaagcatgg 420
tatattgatt gccttgggct tactttc 447

<210> 2332
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2332

catgcaagct ntntcacagt caactgtgaa gaccatgcaa ggattgcttc tggatntagc 60
ttcagctata acctcattag caatcaacac accatgaaga atatgccttc ctttcagaac 120
agcagtttgc ctttcatcaa tgaggtgagg gaaaacaaga gccagcctat tagccagaat 180
tttggacact attntataaa cacaccctat aagagagatg ggtctataat cattaagaga 240
ttgaggggta atgatcttgg ggataagggc tatgaaggaa gcattgcttc ctttggggta 300
taagccattg atgaagaact catccaagaa ccgaataaag tcagggttta gaatctccca 360
naacttcttg ataaaattaa agttcaagcc atccgagcca 400

<210> 2333
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 2333

tcctagcggg ttctaattat atgggccatt agatctatca tatgttgaca atagccgaga 60
 agtccatgga tctcctcggg ggcggagtag gtgtccgcca ttgctttggc cttggctagc 120
 aatcggggaa gttcttgact cccgttcaag gtaagagcaa atcgggccat ccatatcggt 180
 gcctcttgat gtaacgagtc gatcacctt cctctagcct ccttttccgc gtacacttgg 240
 gcgtactcgt ccgccactct atgctcatgg gctggggcta gatttagttc ttcttggtac 300
 ttggtgatga tagctaacat gttggtctct gtttcgcata accgctgaga caagtttctt 360
 ttggaccttg agcaaacctt caactcatct ttcaagatca aactgtctac tcgtgattgg 420
 tccctttcct ctctccggag cttaagctcg ctg 453

<210> 2334
 <211> 270
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2334

agcttngnga tatcanatca ctctacatc tcatctctag catgcatnt ctttctttac 60
 ccactctca cgtttggtt tttaggggaa aaacaccata actaaacgcg ccgcaaggga 120
 tccctatcga accagatcca aatctagaac gatgggtgat caagaggaga cacaggaaca 180
 gatgaaagcc gacatgtcgg ctctgaaaga acaaattggcc tccatgatgg aggccatggt 240
 aggtatgaag cagatcatgg agaagaacgc 270

<210> 2335
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2335

ntcataggtg aaatcaggtg caaccatttc ccttagagtc ctctcacgag gtggaggttg 60

tgccatgttc tcagaatgtg caaaatcaga atgctcagaa tcagaatgct caaaattata 120
 atgctcaaga tcaggatgtt caaaatcacc aataacagaa tgcacagatt caccagttat 180
 ggaatgtctca gaatgatcaa aaggatataaa atgatgccta actaatctat gaaatgtcct 240
 atctatctca ggatcaaagg gttgtaagtc agatggattg cctctagtca tacactacat 300
 tcagcatgca cacaactagt tgctttgtca tgtaaataaa ggtgtaggtt tgaactacag 360
 ctaccctcaa atgatatcca aatgactttg aaatttgtga gcaaccttat aaaatgatga 420
 gaagata 427

<210> 2336
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2336

agctngacct ttgcccattgc tacccatgtc taaagccaat ggtgcaactc caactggngc 60
 atcaaaggta gtctgtaaaa gtataaaaag gacgtgactt taactgcac tcaaaagggt 120
 ccccttttct tgcatttata ccaacttata aatatatggg aaccatttct tagtacaatc 180
 tcatcaatta tttttttctt ctagctcata tttgtctaata agtaaaaata agtttcatga 240
 agtacggatg accccagaat gaatggaaaag aagaaaaagt attttgcgga agtagtcaag 300
 atttaattcg taaaagggtg gcaaaaatat ggaggggtga caaatgaaaa gaaaataggg 360
 gtagtttaat ctccacaatg aaaactttac atttctaccg ctagtatata tgaatagaaa 420
 tt 422

<210> 2337
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2337

nttcaaagtt ntctggttnt ctaaacttg aaaacttgtg ttattcatct tttcattctc 60
 ttctcccttt gccaaaaaga attcgccaag gactaaccgc ctgaattctt tttgtgtctc 120
 tcttctccct tttccaaaag aacaaaggac taaccgccta aattcttttg tgtctccctt 180

ctcccttgtc aaagaattca aaacgacaca gtctgagaat tcttttgatt cttccctttc 240
 cctaatacaa aagtgttcaa aggactaacc gcctgagaat tcttttgat cccattcac 300
 aaagtatcaa aggtttaata gcttgagatc tttgtcttaa cacattggag ggtgcaccc 360
 ttgtggtaca agtagagggt acatctactt gtatttgact gagaacaaga aagggtacat 420
 ctcttgtgaa tcagttctag tgg 443

<210> 2338
 <211> 295
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2338

agcttcaaga ttaggccaaa ctccacttct atatctgatn tcaagcttac ataggcgtct 60
 ttgttcgcg ctcgagtgtt agcgcacttc tgaaccgctt agcgcggtgc atacccaat 120
 ttcgttcggg gaccattgtt tgatggcatg caacctttgc ttgaccgctt cgaggctactt 180
 ggcacccatt ggtgcacaat acgtgaagtt ccataacgtg cccgaagtca aaagaaagca 240
 ttgttgcacg atccgtgaag ttccgtaaca tgccgaaaat caaaaggaag cattg 295

<210> 2339
 <211> 435
 <212> DNA
 <213> Glycine max
 <400> 2339

tcatectcag atccctcttg ttggactagg ctcaacttat gtagcccttg taggtttaga 60
 ctaatttaaa caaagcttca tccgcagatc cctcatttaa gactaggctc agcttaacca 120
 gcttacgtaa gcttagacta atttaaccta agcttcgtcc gcagatccct cttgttgtag 180
 taggcttaaa ttaaataagca ttatcatcac agcatattaa gaaagctaaa acttaaccc 240
 caaatccctt ttgttgttct aaggtaacag tacatttccc aatgctaaag tcacctaact 300
 ggacatacaa atgggtgatc agaccaagag catgcagaaa ttaagcattg aaagaagcat 360
 tgaacacagg aaacacaatc aattagatat taaagtaatt acatcagttg ttccttagaa 420
 attcctaaca agagt 435

<210> 2340
 <211> 249
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2340

agcttgagat gaagaagtgt tgaaggggtga aacttcctgc ttttattggt gaccacagag 60
 tgggtacctgg agatatgtcg cggnggtcag gagaccttgn ggacgtcagg tgggggtgcta 120
 ttgccccaaaa ccaagcttga ccaatcccga cccaaccgg gcatagtcgg tcagtgagaa 180
 cctgtgatgt acctaaacag gagagctcct ggcagtcaac ggataaaagg acaaagacc 240
 acaaagcaa 249

<210> 2341
 <211> 443
 <212> DNA
 <213> Glycine max
 <400> 2341

tcaagaaaaa tggcctcagc aaacttctta tttccagaat gaaattcaat caatagacct 60
 ccaatcttta atggagaggg ttaccactac cggaaaaccc aaatgcaaat ttttattgag 120
 gcaatagact taaatatttg ggaagccata gaaatagggc cttatatacc caccacagta 180
 gaaagaattg caatagatgg aagcacatca agtgaaagca taacaataga aaaacctaga 240
 gatagatggt ctgaagagga tagaagacga gtacaatata attgaaaagc caaaaacata 300
 ataacatctg ccctgtgaat ggatgaatat ttcaggggtt caaattgtaa tagtgctaag 360
 gaaatgtggg acactctaca attaacacat gaaggaacta cagatgttaa aagatctatg 420
 ataaacacat taactcatga ata 443

<210> 2342
 <211> 294
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2342

naagcttgat gatatgggtct tcgccggcaa attgatcgaa gtgggtctga aaagaggcaa 60

atctgatcat cttgctttga taaatgcaaa aaaaaaaaaa aaaaaaaagc tggggcaaat 120
aaagaggggtg aggatgaagg agaagcccgt gctgtgactg ccattcctat acagcccagt 180
ttcccaccaa cccaacaatg tcattaactc agccataacc aacctttttc ttaccaccg 240
cccagttatc cacaaaggcc atccctataa caaccacaaa gtctgtctac cgca 294

<210> 2343
<211> 403
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2343

tctcaaggag gtgagcttag ttatgagagg tgtgtgtgta tctaagctct ancttctcaa 60
ggaagttttc tcacagaagc ttctcatgga agttttctca agaaagcttc tcaaggaagc 120
tacctagtct ataaatagaa gcatgtgtaa cacttgttgt aactttgatg aatgagagtc 180
ttgtgagaca caactcaaag ttcaacttct ctacctttat ttcttccttc aatatcgtgc 240
tccccctct ctctttctct ccctctttct tttctccat tgaagcatcc ttgcaagctt 300
cttatccaag gctcatcttg gtggagaagc tccttcttcc atggcttatt ccctagtgga 360
tggcgctgc tctccgctcg tctcctttgt cttccgctgc atc 403

<210> 2344
<211> 389
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2344

atcatcccca tctacaccaa tgtccatctc atcagcaatc aaagattttg aactctggcc 60
aacaatattg tgtttaaatt tttctacact caaaccaccc ttgttcagaa attcgttatc 120
atgttctttt gcaagaacag aaccaagca agcttgttca ggacaatcct gcaccttggc 180
gcaaaggctt gccatctggc acgaccatc attgattgcc atagatnttg aatcttcact 240
gtaatcaact gaagaaacat tggttntctt caattttccc tccaacttaa ttgaaaaatt 300
ctcaccttca ctacaagggtg cgggtggtac tgagaatgca tcttgagtaa caggcacggc 360
gtcttttata gtacttttag gtgcatcaa 389

<210> 2345
 <211> 315
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2345

tatcaagtan actggcttga cacactatgc atcagcaaca tcacagtnta taaaaagcca 60
 aacattatatt ggcaaaagggt acgcaagtta aaaataaaaa cattagtgtt acaataacca 120
 aaccaaatat ctattcctgt gaataatcgc accatatttt atcaaggcat ttacattcac 180
 aagttgcaag ttataaaaaa ggatactgggt tatcaciaaag tcctcatcta atagtaattt 240
 caataacaag ttgctttgtg cgggtattta aaatttcaag cacttctggc aaggggataa 300
 aacacgatat aaaaa 315

<210> 2346
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 2346

agcttgccctc atatagatct atgaaggacg cttcgccgc aaggactaat gtcgcttccg 60
 agtttgatag ccatcgtttc aggagcactg aacaccagca gcgtttcgaa gtcacaaagg 120
 gatggctcctt ccactgagag agacacatcc agctcagga cgacgagtac acgaatttcc 180
 aggaggagat agctcgccgg cgttggacat cgctggcac tcccatggcc aagttcgatc 240
 cagatgtagt cctcgagttt tatg 264

<210> 2347
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 2347

tgtctcagcg tatatgcgag acggagacca acatgctagc tatgatcgcc aagtaccaag 60
 aagagttagg gctatccact gccacgagc atatgatagc ggacgagtat gctcaagtat 120
 acgcggaaca agaggctaga ggaaggatga tcgactcttt acaccaagag gcaaccatgt 180
 ggatggatcg gcttgctctt accttgaacg ggaggtaaga actgtccctc ttgttagcca 240

aagccaacgc gatggcagac acctac

266

<210> 2348
<211> 339
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2348

ttggggacct cattgaaact canagatcca gcctccatag aagtttcaca agtaagcttc 60
catcatatcc tcttaggcaa caacactgtg gcagtaggga ctaccagcga caatgcatca 120
ccaaaagaag aaaactctag atgaggcttc actgtcatca agtgagttag agaccagca 180
tgaccacaga tcgacctcca ctcccttatgg ctccataga cccgggtata aggcctaata 240
tctcaacatg tgtgcgagggt ttaagtgcc tgtgtgcgta naaaaaatat ttctaactat 300
gaatgtantc gataaacaaa cacacaccaa acacgacaa 339

<210> 2349
<211> 141
<212> DNA
<213> Glycine max

<400> 2349

tcacacgtct gatatccaca atggagtggg aaaagttttt gtctcggttac aagaggagaa 60
ggatgccata tatgaatatt ccgaagccac tttaatatat aagcatttga tctaagtatt 120
agtgaagact gcttaatcag g 141

<210> 2350
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2350

agctntctcc cttatttgct ataaataggg gtagaagtga agaagaaaat gtttaacccc 60
ttaggcactt ctctctcttt cgaatttgct tggaaaaatt gtttccgtga agaaaatcta 120
agccgaggcg cttccgaaac gtttccgtaa ggaatttcgc gaaggtttcg actgttcttc 180
aacgttcttc attcgttctt catcgnctt cgatcttcaa cgggtaagta cctcgaacca 240

agcttttcaa ttcactctat gtacccgtgg tgggccacat ttcgtttcat gtatttttat 300
 tctcgtttcc atttactttt tatacccttt tttgacgtgc ttaagccatt tatttaagtc 360
 atttcttgct taatgtaaaa ataanataaa tttccaccga tcgtttgaat tgtatcatcc 420
 cgtaattttg gttaaatt 437

<210> 2351
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 2351

tgagccaaaa tcttgactca ccataaacct tgaccattg tgagaatgtc aatccttacc 60
 ctcagaagca aaaaaaggga gagggaaaat ttccaatcaa agagaaagca aataatgaaa 120
 gaaagaaaat ttccaatcaa aagagaaaag agaggaaagg aaattcccaa tcaaagaatg 180
 ggagaaagca aaaagaaaag atagaaaatt cccaatcaaa gaatgggaga aagaaaaaag 240
 agaaggagaa gaatgaaaga aagctcctga tcaaggatcg aaagaaaaca gaagaaatgt 300
 gcagagaggt ctctggacca aacaatatct gaacaaatac ggaattgtca ccaaataaac 360
 aaaagaaaga ataggaaacc ctaacctaaa agtgggtcttc tccctttgat taccaaccaa 420
 aatcctgtgc g 431

<210> 2352
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 2352

cctctgagtc acctgctgca tgcattgtag gaccgtgccc aagttgagcc tccaatatat 60
 ccaccgttgg gaaatattag actttgagaa cttagctac tattatatct tggttggtca 120
 tattctctag ccttgcttcc ctaccacgac aagggtaaaa gcatgcagtt gtctaaacca 180
 cataccttca tgttcctttt tcattatcat cttgaccac ataagccaat tgattccttg 240
 tctttgtgga ttagagtccc accaaaaaga attcatcatc tgctacaatt catcttcaag 300
 agtgggaagga aacatatata cactcatgta ataagtgggt atagatcgag caacagattt 360
 ta 362

<210> 2353
 <211> 456
 <212> DNA
 <213> Glycine max.

<223> unsure at all n locations
 <400> 2353

ntagtataga ttactttaat ttaatgcatg attntttag tag ttggccgaca ttgtacgtgt 60
 taatttggtt accataaact tagccacatg atatgtttct tttttagaa acctcataag 120
 actttttttt tttatttaaa aaattatcgt caaacaactc ttttttttgt ctttttttgt 180
 ttaattaatt atccgcctga tatgtacatt gtcaggaaaa atgttgagga tcttgtcttt 240
 cttggtactt tatattctac ttctaggctt tgcaaaattg ttttttaatt agatgttgca 300
 aatgatgaag tattagacaa gtaatctgct ttcaattttc aaattgcatg gtatttgtgt 360
 gggttgctaaa atatataatt ccattttcct gatctgttct gtaatctgag taaatgacaa 420
 tatacatgca tatctttctca cctatcgaaa ataaaa 456

<210> 2354
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2354

catgcaagct tccacaatat ccaagcaatt caatntccaa tctcaagaac taccctttac 60
 caaganaaca gggcagaggc agaaaactct gcccaaaaaca cattcacata ttacagcttc 120
 ccttactcaa ataccccagt aacattctct togttccgat tcgttaaccg ttggatcgac 180
 ttgaaaattt tactggaggt tccaagtaca tgagtttaca ntttgaccgt tgggatctgc 240
 tagaaaatgt ccagaacca atatgtacta cttttoccaa aaccagcaat gcacaagcat 300
 ttttctgcac atttgatcaa attggctgca caatttgaca gctnnttgct gcacaatttg 360
 gcagattaga aatccatcta cccacatcaa tttgctcaat cggatctaca agtctaaata 420
 tgataaatca ta 432

<210> 2355
 <211> 435

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2355

tccatcaagt ggtaatcaga gcacaagagc ttcaagtagg tgctccttaa acctccatta 60
atnttttgc ttaaccttctc ttccattggt gtttcttcat tttttctcca agtatctect 120
caaagtcttt gtgataaatg ttttaaacad gattcttttag agtttccacc gattaaactt 180
gctatagaag ctagatttga ttttctatgg ttcanatttc ttgttcttgt tcttgaacca 240
tgaattgtgt tgagtttacg ttcctttgag ttttgtcttg ttattttttg tggctgaaac 300
ctaaaccata aaattcttac aaaaatatta aagtagtaga aaacctcaaa aatctagagt 360
gacttgttca cctattgtag ttttgtcata gaagtcattg ctagtcaaga aacttgtcac 420
ataagatttc ttatg 435

<210> 2356
<211> 386
<212> DNA
<213> Glycine max

<400> 2356

ttgtttgcaa gcttgccacc catctcgccc agatgagctt tgttgcttcc tccagaaggc 60
accacaatga tgcttgtttt gcacaacaat gctctttttg acttccagaa tgttgcgaaa 120
ctttacggat tgcgcaacaa tgcttggtta acatttcaga atgttacgga actttatgga 180
ttgcacaaca attcttgcta aacattttga ggcgggtcaag agaaggctgt atgccaacac 240
ataatgtccc cttgacgaaa ttagggtagt acagtcgtcc ctctttactt atcttttatt 300
ggagataaaa gtgaagtata gataagacac taatttcgtt cgagtggaaac atgatttgcg 360
cgatcaatat ccctaccgcg ggacct 386

<210> 2357
<211> 430
<212> DNA
<213> Glycine max

<400> 2357

cgcttggaac atgatttcta taaaaagtt agtcgtataa agcgactaac aaatcttcag 60

taatatcccg ccaaaccag aaaactccta atctcacaca cagacttaag actctccac 120
 ttaagtacaa cttctatctt agaaggatct atatctatac tgccttagga tatcacatgt 180
 cctagaaaac taactttatc taaccagaac tcacacttgg acaacttagc ataaagtgt 240
 cggttcctaa ggggtgtgcaa cacaatcctc aagtgtctt catgtcctt tctagtctt 300
 gagtatacca aaatatcatc tatgaaaact accacagaac tatcaagata tgggtgaaa 360
 atcctattca tgtaaactat aaacacacca ggggcattag tcacaccaat gggcatgaca 420
 tactcatagt 430

<210> 2358
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2358

agctntntat ttttagtaga tgaagatgaa ttcgtggcca cctcatggac tcctctaaga 60
 acaatagcat catttcttga actgaattgt tgggagttag aagccatctt ctcaatcaaa 120
 ttcttagctt cagtaggggt catatcacca agagctccac cactggtagc atcaatcata 180
 ctctctcca tgttgctaag tccctcatag aaatattgaa gaaggagttg ctcagaaatc 240
 tgggtggtgaa ggcagcttgc acacaatttc ttgaatctt cctagtactc atacaagctc 300
 tctccactaa gttgcctgat gcctgaaatg tcttttttga tggcagtggc ccaagatgaa 360
 gggaagaatt tctccaagaa caccctctta aggtcatccc agctgaanat ggacctgaga 420
 gcaaggtagt atagccaatc ttttg 445

<210> 2359
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2359

tgtaggatta tggngtacct atcacatgtg gtactagggtg ttggtcgggc gatggtgcac 60
 aacaagttgt ccacatccac aatgcgcgca taaaccaccc atcccctgtt gccacctcc 120
 aactgagctc acgtactccc acgtagccca tatcctcgtt tctctcaaca ccgggtcccc 180

atcaatcctc ccaagcttcc acaacatcca agcaaaacaa cattcacaca gcacaagcta 240
 tcacagccaa gcaaaacaaa gcaaaggcag aaaactctgc caaaacacca accaaaaatc 300
 acagcttttc ccaactcaaag accccagtaa caattccttc gatccaattt gttaaccggt 360
 ggatcgaact ccaaaattta ctggaagtcc atagtgcata agcctacant ttgaccgttg 420
 ggatctact 429

<210> 2360
 <211> 197
 <212> DNA
 <213> Glycine max

<400> 2360

tagagagagg aagactaaag atttggatcc agtacagtgc gctaaggatg aagaaggcaa 60
 agtcttattg cctgaaaaag atatcaagga aagggtgaag gcgtatttcc acaacttact 120
 taatgatgga tatggatatg actctagcag tctagacaca agagaagagg accggaacta 180
 taagtactat tgtcgga 197

<210> 2361
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 2361

tcaattcctt ctacgtctca ttgatgtttg ggaactctat tggagtagtc ggaggaaaaa 60
 ctggaggaat ctgaggaat cgctagagat gccgctatcg ctgtcagaag acatgtgagt 120
 ccgcttagag gtaagggatg agttattcac aattgggggt tagtattgag aacatgtgta 180
 gggatcctta gaggattaa ttggggtttt attttgggat gtttattaa ttgcaatttt 240
 tcctttatga tcataaataa aatattgatg ttacgatgag aatttcttga taaattgtgc 300
 tcttgatatt tgtatatttt gacctatgat tttgatataa ttgtgtaata ttatttgaga 360
 ggtttttagtc ccaggttgt gatagtcttt tgtataaact gttatattga ggatataaaa 420
 ttatgattc 429

<210> 2362
 <211> 339
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2362

agctngcata cattattctc cttgcctgca tcttanaacc ttctgggtgg gtcatataga 60
tgtcttcctc taaatcccca tgcaagaatg tagttttaac atctaactgc tccaagtga 120
gattctctgc agctactatg ctcagaataa ctctgatggg agtcactctt acaactggag 180
agaagatctc tgtgaaatca attccttggt tctgctgaaa ccctttcacc acaagtctcg 240
ccttgatatc tcttctaccg tcagattctt cctttagcct atagaccac ctattctgta 300
atgccttctt tccttctggc aatttaatta aagaccacg 339

<210> 2363

<211> 433

<212> DNA

<213> Glycine max

<400> 2363

tctccgtcta ttccctataa atatgtgtca tagggaagat tatagacgtt caaccttcct 60
ggatatctgag gatcacttga aattagtga aaaaaatcgt ttccgtgaag aaaatccaag 120
ccgaggcgct tccgtaacgc gtctgaaacg ttcccggtgg tgattccgtg aagattttcc 180
gccatctatc gttcgttctt catagatctt gttcgtgctg cggacttaaa ccgataagta 240
cccgaaatcg aacttttcaa ttcatctat gtacccttgg ggggttccac ttgtttcgcg 300
tactttaatt ttcatctcat ttactttctg tatccccctt tgacgagcgt tagtcattta 360
tttaagtcac tttctcccct aatcaagaaa taaaataaac ttgcaccgat catttaaatt 420
ggtacagttg ata 433

<210> 2364

<211> 365

<212> DNA

<213> Glycine max

<400> 2364

agcttggtg atgaagataa acgaactaga tacaaccccc agatgtttga ctttcttctt 60
tcgtggatca agatgacacc accatattac ggtcttgcta ggctgtcga gattatcaag 120
ttgttgcca attttgatgt caagccggag gattttaagg agactttacc tgctgccaa 180

tcacctaaga ccgtgctcac ggtaactcgc actttcccat tagggactag atgtcctcta 240
 gtgctagaga ttgctgtgaa acagggtaca tcgtctgaag tagggattcg agcttattag 300
 ttgaaggacc ataaggatcc atagctgatg gaggaggaca cagaggagac tcctaacggc 360
 gatct 365

<210> 2365
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2365

gtcaacagat gtcttcacaa ataatcatca cacagcagat atctaacaaa actaccctc 60
 atatctccca gaaccccata cccacgaaaa tcaagaggga aagaagtcca cccaaacctg 120
 aaatttcgaa gtccactcg tagccacgca cttcacgact ccaaaaatgc tctcctttca 180
 cgatttgggg cagaaatggt ggccaaaggt tgaagctatg cttgaagctt caatggagaa 240
 tgaagaagaa gacagctacg tgagagaggg agagaaaagg cttctgaatt tctgctttgg 300
 ctgagtgagg agagagaaca gctntttggt ttaaaaataa aaaggggttt ccctttttcc 360
 attattatat tcaagctttg ccacatgtcc cctattgatt ggagcaaaag ggcccacttt 420
 ctctttttga ctgtgatcca tact 444

<210> 2366
 <211> 414
 <212> DNA
 <213> Glycine max
 <400> 2366

gcttgatgat tatggtgcac ccacacatg tggtagtagg tggcgggccgg gcgatgggtgc 60
 acaacaagtt ttccacatcc acaaagcgcg cataaaccga ccattccctg ttgcccacct 120
 ccactcgagc tcacgtactc ccacgtagcc catatcctcg tttctctcaa caccgggtcc 180
 ccacatcaattc ttccaagctt ccacaacatc caagcgaaac aacattcaaa cagcacagct 240
 atcacagcca agcaaaacaa agcaaaggcc gataactctg ccacaacacc aaccaaaatc 300
 acagcttttc tcatttataa gccccagtaa caattccttc gatccaattc gttaaccggt 360

ggatcgactc cacaatttac tggaagctat agaacactag cctacattgt gacc

414

<210> 2367
<211> 328
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2367

tccatcaagt ggttatcaga gcataagagc ttcaagtatg tgctccttaa acctccatta 60
atTTTTtGct ttaccttctc ttccattgct gtttcttcat tttttctcca tgtatctct 120
cacatgtctt gtcttaaatt ttgttaacat gattatntag agtttccacc gattaaactt 180
gctatataag ctagatttga ttctctatgg ttcaaatttc ttcttggtgt tcttgaacca 240
tgaaatgtgt tgagtcttgg gtcccttgag atattgtctt gatatttatt gtggctgaaa 300
ccctaaccat naaacttctt aaaaaata 328

<210> 2368
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2368

gatgtttatg aattaatng acattatggt atatntattg atgatcaact tgatagtaaa 60
ttaaaaaaat gtgaactcaa ttggcataag ctatacaata gaataaaatt atgcactttn 120
tacacatcac tgactaaata aaaaaaatgt tgtaacataa actaatttat catcacttta 180
catttctcaa gaacaaaagt gtttatttac accttctttt atctaataa attcatgtca 240
aattcattag ttaaggaata aaactcatta aataattaat aagtgatact acataattta 300
ctgaatttta cgtgattgta atttaataat aaaaatgtta ataatatatt aatatatatt 360
tatgaacctt nttcattgcc caataaaaat aaaaagtta aataattatt gtaatcc 417

<210> 2369
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2369

cctgtntatt ccttaacaag ggtcaaaata tgacacaaac tnttttctat tgtgtgaatt 60
ntaaaattga ttgaaatc tataaaagat aattaagttt aattttatga aaagaaaatt 120
aattaatatt tatgtttatt atttagtgta aatttcaata gaaaattcta ctattatcga 180
gactgtgttg catgctgata gtggtagaat acattgtata agagaacaaa ccatcgataa 240
aaaaaataaa ggatttaatt ataaatagtc tctaattgatt ataattagat tcctgtttaa 300
aaataaataa aatattcata aaatctatta ttaaatatgt agtaattctaa aaataataat 360
aacaacaatt aggcaacaaa atagcttaca tacaacaat aaccaataat 410

<210> 2370
<211> 268
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2370

agcttcccag attcgatcat ggaaggactt gtcaactgct ttcattaggc aataccagta 60
caatacggat atgggtcccg atcggaacca gtttcagagt atgactaagc gggagcatga 120
gtccattaag gaatatgcc aaagatggag agatctcgcg gcccaagtcg taccgcccatt 180
gacggagagg gagatgatca caattatggt agatacgta cccacgttct actatgaana 240
gctgataggc tacatgccag ctaacttt 268

<210> 2371
<211> 375
<212> DNA
<213> Glycine max
<400> 2371

ggtgcacatg gtaatgtttc tcctgattat aaatccagct gctcgcatca cataaacctt 60
ttcatttata aatccattca gaaacacact ctgtagaata gaaagagagt ggtccaaaat 120
taccatgaat gtatgccaaa gggaattggt cgtcagttaa tggctctcta ggagctgccc 180
ttttgaactt ataaagggtgt tatggaaatg gacgtggatg cggctcgtgga gtttgtgcac 240
acttgcacag tgggtgtgtga ggagagtcac caatggattc atcttcaaata gagggaaaaag 300
ctagatctat cttggttctg gtgaaggaaa taccattctt ttgtcctaata ttttgggttg 360

ccttgagccc ttgtc

375

<210> 2372
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2372

agcttgtggc agataatgct aggggtggatt cctggcatgt tagatggttg tcaagcaaatt 60
agggtctgtgt tcctatgtaa gacatcaact atgcgtctgt gctcatggct ggtgagggtcc 120
ctgttgagct acatgcacta cccgagtttg ggtccgagtt gtagcttgac gagttcttca 180
gtaggctttg ggctctatc agaagtgtcg ntgcacgaat ctacattgaa tatgttgtct 240
aggctttctt ggtagactgt cagggtcag actggagacc ctctgtccac actcatgatt 300
tgagtggtag catctgctgt ggngtaaagc ttggcaggct ccctgggtggg aggatagagt 360
gccactt 367

<210> 2373
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2373

atcccacatg gttgaagcat tctcgcanaa caacatgtcc ctaactggtc tccctataat 60
tntacctagt gaaagtgact tgacttacca ctgtgtgggt tgtcttgta tgtactccta 120
ggcgtcaac taaattnttt actaatatgg taccacattg tatataagat tgaatcctag 180
tgtacctgtt gcataatatt tgtgtaatga tcattgcgag ttattacatg atgggtgggta 240
ataaattgtg tgagtgttag atgctatgtt gtacttgaga tgtgttggtt taaacatgtg 300
attaatgtga aggtgtggaa tgtgattctg tgaataatac cttgagacaa gtgatgttac 360
aaacatgagt agtaaagat gcgaattgtg atactaagtt gagcttggtg tacttatata 420
tgngettnnt attatctcta ccctg 445

<210> 2374
<211> 418
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2374

agcttattgg ttntgataat atcactagag aaaatacagc attaaaagta atttanacgt 60
aaaataatca tcaatcttta tactatgtct ctttcttgtc agatctcatt cctgggtgatt 120
ttattcatgt tattggggat gctcatatth accgcaatca cgtgaggcct ttgcaggagc 180
agctccataa ccagccaaag ccttttccag tatgtgtaat gtttagcact tctttaagtt 240
tatcttttga ctctcttact tngttacccc ctaatgtact tcattgcaga ctttgaagat 300
aaatccaaag aagaaagata tagattcttt tgtggctgct gatttcaagc tcataggcta 360
tgatcctcac cagaagaatg atatgaagct gtctgtctaa natctgggga ttctcact 418

<210> 2375

<211> 477

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2375

tcaccacgga naggcgtaaac taactgataa aataattatt tcagttagtt taattntcat 60
atatnttggg tgtaaatatt cttatattaa ttttaaattt aattaactat taaaataatt 120
acttccttta ttcttttagga ccaaaccggc tattaaatgg aatggataat tttttatgat 180
tataattttt ataaagtagt taattttggt attattttatc taagtaatta gtattctttt 240
atttccaaca ctgtaaaatg ttttttctact ttaatattht cacatcactc gataccaagt 300
taataattat taataagaat aaatcttggc caatagtaat aagtattctt aactaaaatg 360
aaaatctaga taactttaat ctaagtggaa ataataaata aatataaaaa acatagatct 420
atattgaaaa ataatttgta atctaact taaaaatatt atataaaaag aatatag 477

<210> 2376

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2376

agcttcttag tttcagatga tgcagatggg tttgtagcta cctcatgcgc tcttctaattg 60

actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120
 tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180
 cttctctcca tattactgag tccttcataa aaatattgga gaagaagttg ttctgaaatc 240
 tgatggtggn ggcaactggc acatagtctt ttaaactctt cccagtactc atacaggctc 300
 tctccactga gttgtctaata acctgagata tccttctga tggctgtggt cctggaagca 360
 gggaannatn tttctaagaa tactctctt 389

<210> 2377
 <211> 489
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2377

tcttcatgtc tctctcgta tctctaacat ctaggactca tgtgtttatc atagtaaggt 60
 ggaagatggt tcccacatct atctactact ttacacggat gacatgctta tagcatccca 120
 aaatttggtg ccaattttga ggatgaagtt actactctat aatgaatttg atatgaagga 180
 catgggagtt gctgaaaaga ttctgggcaa ggagaataag atggatgaag tccagaagat 240
 gatcttctgt gtcagaagga atacattcaa aaattgctaa attgttttgg gatggcatcc 300
 gcaaaaatag tatgtactcc cctaataacg tccattcgtt tatctatact caatactact 360
 cagtcaaata tagagaagga atacatgtcg tgtgttcctt atgcaagtgt tgtagctagt 420
 ctcatgtatg ctacaccana ccanacctaa cacaagaagt aatgggtgtga gtaagtatat 480
 tgggtattct 489

<210> 2378
 <211> 472
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2378

tcttactgtt tattgcaggc ctatagagct ctacaacata attaagagtc gtactaaaaa 60
 aaaggtaaaa tctattaaga gagtcttact gtttatgtca taatttataa cttttattag 120
 gaattgggat atatatatat atatatatat atatatatat atatatatat' 180

atatatatat atatTTTTgcg tgagacataa cctcataggg gctgattnta ttattgggtat 240
 tattattgta tattattgtg aaaattgtct ctttctctac ctgttgTTTT aggagaatat 300
 cttatactat ttacttctct ttagtaagac ttatcgcttc cttttttatt ttagctcttg 360
 ataatatcat cgcgtgctgt tctaataata tacatgtctg tcttatagcc actatacctt 420
 cggagatgta tggactacca tataaacgct aagcgcaaga agaagtatac cg 472

<210> 2379
 <211> 504
 <212> DNA
 <213> Glycine max

<400> 2379

cgaatcgttt cagttggaaa aaatcccttg tgcataga tcaaaggata tgaacacaca 60
 aagatacatc accaaagaaa taaaataatg aaagatataa atttaaagca gatattttt 120
 atctacattc acacaaacat ctaaacaata ttcactatct caaattttta tttgacaatg 180
 aattacattt atcctctatt taataatgtc aaaataacaa taaattgata tcttgacaga 240
 actataatta taataagagt ttaaaataat tgtacattat catctactca tcaatcattg 300
 ttgttatgat ttttaaaata atttttatca aagtcaacaa acttatatca tagatgatga 360
 ttgaatgata atgtaatctt acattatata atactttttc tcttataata acctatagca 420
 aggataaatg cacacattga tccgatgcac agattattag gatcattata tagtatggat 480
 tcattgggat gatcgatgat gctg 504

<210> 2380
 <211> 138
 <212> DNA
 <213> Glycine max

<400> 2380

taactccgga gcactttaat agtgacatta cattccgacg aatacaggca aaggatgga 60
 ttacaggagc ctttttctac tcgcgcattt aagaatcccc atttggtgctg tggggcgata 120
 tcgaatatgt atcatcgt 138

<210> 2381
 <211> 351

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2381

agctntatag cgcaacaaca cagaatctag gcgtccaaca cccctcaatt caatgggttt 60
tctaggtttg aaaagtgaag ttgagaatga ggtaaacttg aagcaaactc tcacctcaca 120
caagtccata acatcaatct aaacttgctc aaactgaatt tacacctaaa attccaccga 180
atcanaattt gactcctcaa cacccaattt tgccctagaa atagctgctt gntcattttg 240
atcatattgt cttctctcta gcacagtcca agctttctcc caagtcctaa atgacatttc 300
aagctagtat taactcactt taacctccat ttaccacaga attcagactt a 351

<210> 2382
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2382

tcttatccag gcacattctt ggtggtgaag ctctctcttc catggcttat tcccttgtgg 60
atggtgcctc cctctcctc ttctcctttg ccttcctgctg catctccatg gtggaaaacc 120
accattgaag ctcaaagatc cagcctccat agaagcttca caagcaagct accatcaagt 180
ggtaatcaga gcacaagagc ttcaagtagg tgctccttaa accaccatta attttttttc 240
tttaccttct ctttcattct tgtttcttca tttttctccg cgtatctcct cacatctctt 300
gtgctaaatg ttgttaaaat gaatcntag agtttcaacc gattaaactt gctatagaag 360
ctagatttga atttctat 378

<210> 2383
<211> 343
<212> DNA
<213> Glycine max

<400> 2383

agcttgcaca tgcatgatgt tcttttcttg tacattgaac tacttatatt tccctaataca 60
gctcattcaa tgaaatggag gtgttattga taccaatgca caagttattt tgttttctca 120
agcgagatta gttctatctt ggttcgttca atttcccttc tttgtgatag tgaagaaaaa 180

cttgatggtg aatctagtta ccactaaca cttaggcaaa attatatgta gaaatgagtt 240
 agcctataat ataaaccaga aacccaaaaga cagcatcaga aaacattcag actgctattc 300
 aaactcatac atttaaattg accttgtaaa gcgttaatga aca 343

<210> 2384
 <211> 292
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2384

ctgcatgggt ngttattntt caatcataat agtagcaggt ntgatatctc ttcattcattt 60
 gaaaaattgt aaccagagat tatgggggca gagaagtagg ataactatct ttccaaagtc 120
 ttggaaggca aataagcctt tgggtctggat tttatgtcat gatcctgaca tgtaagtgt 180
 tcgagtttga gctccaatta taagctcaac aagctttgct tgtacatata ttggaaaaac 240
 agatcagatg cttaaagcag tctatcaagc tgaaatgatg atgaccagaa ag 292

<210> 2385
 <211> 305
 <212> DNA
 <213> Glycine max
 <400> 2385

agcttgtagg attatggtgt acccatcaca tgtggtacta tgaggaggac gggcgaaggt 60
 gcacaacaat tctccacatc cacaatcac gtataaaacc accatcccct gttgccacc 120
 tccaactgag ctcacgtact gccacgtagc cctcatgctc atttctctca acgccgggtc 180
 cccatgaatc ctcccaagct ttcacaacat acaagaaatt tcacatccca tcatgataga 240
 ctaacagaac caagcataac agagcatagg cagataactc tgtccaaaac acaaaccaaa 300
 atcac 305

<210> 2386
 <211> 479
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2386

ntcatgttac tagttattct tgcaatttca acaattgtct gaaactgatt ttagtgctcc 60
ctaataatctc cctaagggtt ttctacgttc taaaaccagt tnttagctta aaattactaa 120
gataagtcgt ctctatctta aaattaagct gctgtttang ttttcaaaga ttccctccta 180
aacttaattt cgatttttcta agtggtccgg gaattgggtt ttcataaatt ttacatgcta 240
cactatattt tcacacctaa naactcantt ttgaagtcaa atatttaaga anaacagttc 300
atacaaccat aacaacctat ggtaagttcc aaaaccctag tcttggtagg actaattagg 360
ctctgatacc actaaatgta acatcctaatt ttctaagact ggaattatat ctntgttatt 420
tcatttatat attttataaa tctcattaat ccatttgatt tcacaatcat ctaacacag 479

<210> 2387
<211> 397
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2387

agctntataa gcgcgggtct gggagacaaa ggtcaagtgg tcgcgatatg cgaagaggat 60
gttccgagta cattggattt ggtacgacca tgccctcctg atttccagct gggaaattgg 120
cgagtggagg aacgccccgg catttacgca acgagcaaatt gtaaaccctt acggttttta 180
aagctctata gttgggccta ggcttttagag ntttttcctt ttgttaaggc gtttgtgtct 240
ttcgtttttg aatttataat acgaggacct ttcttcatct gttcctacgt ctctacccat 300
tctcattcat ttgcatgttc acttcttttt ctgaaacggc agatccgatg acgagtcctc 360
ccgagggtact aatacctggg acccgctatc gacttcg 397

<210> 2388
<211> 416
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2388

ctangagaga ccataagaac taaggtagtt cctaaacaaa aatcaattga ggaaacttcg 60
ccaagaatcc ccattgaaaa acctttattc aaacctttca aagttagtga gaaggctaaa 120
agaaaaatta gggaacttag aaaaactaaa tccttaattg aaggcgtagg tgacaaccat 180

agtgaattac taaacaagat tggtagttta cttaaagtca ttccagatac cccccaagcc 240
tctgaaaata cttccaaaat ggtaacaaga agtacctcca aattaatcaa tgttattaat 300
gaagatagtg accaaaactc agataacaca actgagatag gatcagtgtc agagaagaat 360
ataaatccaa ttaattccaa aacttggaag acacccttca aattatatta tcaacg 416

<210> 2389
<211> 552
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2389

ctggattaga aacccttgggt agnaaccggt agtataccta gctattacct gacactatag 60
catactctag cttaaagagag tgcactcttt atgatacaca aagtactcat gagagattac 120
aacttcattg tagatcactc tctgagtctt gttgagaatc tctaactcta tatcaaactt 180
atggctcgtga aagccacgag aggctttata accaaacaat acttgtgtgt tttagatata 240
ggggagttta aaggttggtc tagctatgac cttgagaata cttatccacc aaaagtggta 300
gaaaagaact cttgctataa tcaaggctga ttaatggaac actgatttgg taaggaaaac 360
tacacgctac tcaggttgag tgaattcatt ataacgaagc actttattac tcttcttatt 420
taccttacca gaatatttag agtctattat tgatacattt tgctcacctg gtttcattgg 480
gaatataaat tttatcatca ttggatgaca atccttntaa tcaactggacg aggcttata 540
aacatattat tn 552

<210> 2390
<211> 184
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2390

tctttctcat tctctcaacc acaggtgaaa gaaagaagag agtgagagaa gagaaggtgc 60
tcctcatctc accgctctgt agttcttctt cttcaaaac tcgaatgacc catttctatg 120
ttntcgcac tcttgccact tctgaagtaa agatacaagc tttgctcttt tctcactgga 180
tcgg 184

<210> 2391
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2391

ntccacttgg cttctaactn ttcgactctt aacttataac ttataagctt ttaattaagt 60
 ttataagcta attgtactaa atataatctt aatagttaat ttggtttgat aaatttatct 120
 taaatttaca ttttatttta aaagagtaat aacattttta cacccttttt ttctctccat 180
 ctctttcttc ttattaaatc atattaccta tcttagatat actgtatact nttctttctt 240
 ctctctcttc tttactcgaa gtgttcata aaacatgaat ctctctntat tntttattct 300
 ntataaaaat gtcattatta ttaatatctt tttctcttat gagtctcaat ataacctctt 360
 ttgtcattta attaggagta ttttatttta caataattaa tataattaa tatgagagac 420
 attcgccact ttttaatttta tcttat 446

<210> 2392
 <211> 60
 <212> DNA
 <213> Glycine max

<400> 2392

ctttggattt gaggtcatat tcatttcaag gaggaggga tgatgcaatc ctaccttta 60

<210> 2393
 <211> 190
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2393

taattttctac tccanattgc aaaaggaagc cattctcgga gtcgtgaagc gcacctctac 60
 gttgtgggac ttcgaatttc aggtttgggt ggacttcttc tcacattaat ttcgtgggta 120
 ttgggttttt gggagatatg atgggcactt ttactaggtt aatgccttat ggtagttatt 180
 tgtgaaggaa 190

<210> 2394
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2394

agctttgcgg ntggtaccgt gacttgtgtc cctcacatta actctgtccc gctttttggt 60
 gcttagcatt tatcgtagtt aagcataacc taactcgtga atatgcttgg tatacaaaca 120
 tataatttct acattatatt ttcttatctc tttattattt ttttgtcaca ttatttatct 180
 tatttcttat tttctttctt ctctcngttt cttttctttc tatcgcgtag ataaagatta 240
 cagatatagc atttaattaa aaatatctgt tgtaagattt tgaanagatt atagacgggt 300
 aagaatcctc cattattaat taacaatgtc agtacacatt cccagacaaa caatgctgat 360
 catttaac 368

<210> 2395
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2395

ntaatgagta ganaanataa aagagaagat aataagaagg aagcacatgc ataatttatt 60
 tctaaccaag taaccatggt catggtcatg gtcattagtc tcattcaaca gtctcatttg 120
 tatgtacatc acatcattca tctagcagaa gttcaagaga aagctcanag cagtgcatt 180
 ataacctagc gatgctaact tatacatgtg gttgattatt atctattatc tcacatacta 240
 tntaaattta aataataaaa aaaagcacga ctgattacta tgcaaaaatg aagtaggggg 300
 aggaacatag ctgcaagcct cacagaagtt ttctctcttt tccggttaat gcatgattgt 360
 gcatcatatt ggaatccata tctcatatg acacctgttc attcttttagc gctaatac 417

<210> 2396
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2396

agcttcatgt tgccttttcg aaagatgttc tggctaagaa cgttgtcatc gtagcagttc 60
caggcgtcct cagaggtgaa tctgtcagtg tcatagttag gctagggcct ggaagctgtg 120
gctttccttt tcctagaagc catctgcaca aaagaaacat ataaaccaag ttaacacagg 180
ttgtatttga aatgacangc taanaaataa aactgaaatt cagattgggc gcttatagtg 240
acaaatgcgc gccttattaa aaattactca agcacttagc gtgatagcca cacacttagc 300
gagttgacac aaatcagaat tatcagcaga aaccaaattg cgcttagcac agctagacac 360
gcttagcgcg acaatagtaa tggacat 387

<210> 2397
<211> 485
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2397

ggttctctnt tctattattn tatcttaagc tatgccacat gtctccattt gagtggagca 60
aaagggccca ctttttctct tgatgtgact catgctcagc cacatgaaga gaaaaatctg 120
accttttgaa atgccaaaat cttgcctcgg tttgcatgcc gttcctctgg ttccagtcctc 180
tcgcgtttct ctgcgcccgt cagggccagt ttctgaaagt aggcaatata tatataaaaa 240
tgctcagaat gaaaccccga gcgtgggttca gaggttggtt ttgttaaatt ctaagttgca 300
cacaaaacga tgatttttag actaattaat taagaattaa cctataacct tccagttatg 360
gatttctctt ccataattag cctaaccgc gtatcttgcc cncactattc ctacttctac 420
caggaacata tatgcatata cactaaataa tacttataaa tatatataat cattcanaat 480
acacc 485

<210> 2398
<211> 312
<212> DNA
<213> Glycine max
<400> 2398

agcttgttgg ccgcgaatga caaatggtgc ggaagacgac gctagtctct gcatgctatc 60
atgcgttgag tcttagagat agcaaaagaa tgtttatagg gataactact tgggaatttc 120
cgctgcccc ctaactttat gggtagttc ttgacaaagg tagtctgcgc ggaacacgac 180

ataaatctac tcatgtcaac ggtcttggtg gccgcgattg acaaaggatg caaaagacga 240
cgttagtctc tgcatactat catgcgttga gtcttatagg tagcaaagga atgtttatgc 300
ggataacaac tt 312

<210> 2399
<211> 489
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2399

tgtaggatta tggggtaccc atcacatgtg gtcctagggtg gcggtcgggc gatggtgcag 60
aacaagtttt ccatatccac aaagcgcgca taaaccaccc atcccctgtt gccacacctc 120
atctgagctc acgtactccc acgtagccca tatectcgtt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc aaaacatcca aacaaaacga cattcaaacc gcacaagcta 240
tcacagccaa gcaaaacaga gcataggcag aaaactctgc caaaacacca accaaatcac 300
agcttttctc acttaaagac cccagtaaca attccttcgt tccggttcat taaccattgg 360
atcgactcga aaattntact ggaaatctct aatacttaag cctacanttt gaccgttggg 420
atctactagc aaacatccag aactcattct gcactaccct ttccacagcc aaccacgaca 480
caagcattt 489

<210> 2400
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2400

gcttactcca ggtttcactt gacgtcttct ttctatgcaa tgacgttctc taacgtgaac 60
actnntcttt ttatttattt taattnttta tgattttatc taatgttatg gaatgtctta 120
atttgtaaat atttattatt aaatttctta ttatatttaa gtgaagaaat taatgatata 180
tgtaaagtga taattatatt tgatttagaa ttaattntac ataagccaaa tgagtgcac 240
ttgtgcatag tgcatacccc taatttctta gtntaataa ttaattattt ntgtcgacaa 300
tcgattgtct tatgtaaaaa aatcaatttt ataacataat cgttgattat caaattgatt 360

gtaaaaaaat tatttatcat ctctttntt cttnttttca aacgtactat atttctcact 420
 tgttggtatt cattggattc tatttttttt tcttaatttc atctaacttg ttct 474

<210> 2401
 <211> 499
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2401

cgcatctttt actaaggcag ttntataaaa tcgtccttgt tttagtgtca tataatctca 60
 cttttggagt agtgccaatt gcaatctatg tttctattga agatccttgg ccctttgaaa 120
 tattttcttg gcttagaaat agctaaatcc aatagaggta tctcactctc ccaaagaaaa 180
 tacactatat ctctttttaga agatacaagt ttcttggcat gcaaaccctc caatcttcca 240
 atggatccaa acttgaagct caatcttcat gatggagact tactccttga tcccttagtg 300
 tataaaacgt taattggtag attaatttat ctaaccatat cacgtcccga tataacattt 360
 ggtgtaaatc acttgagtca atatatgaaa gaacatagag tntgtcacct aaatggtgtc 420
 catcatcttc tgcagtatct cacatctact ccaggacaag gtttattttc cctgctcata 480
 actctctcaa attcactgc 499

<210> 2402
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2402

agctatgagt ccaataataa aaaaatattt gtttttaatt cttataaagt aaaaaaaatc 60
 aaatttatta gaacaatatt tcatatatta ataaaaagtc caacacataa tcctcttatt 120
 taaaataaaa agtattttctc ttaaaattta cattaaaatt tacttattca atcagacctt 180
 attaaaaata aatatattat gtgtaagata aaactctctc aacaccacaca tcattttact 240
 tgtacttgac acacctacct agagaggaat gaggttaaac ttaccatan aagaaaaaga 300
 attatgggga tatacttggg gtgccaatta tgggtgtttct aagttaattc tttttaaaca 360
 aaaggctaaa agtttttagtg gtttttttat gttataatgt gaagatatta ct 412

<210> 2403
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 2403

tctatccatg gcgttctatg gtggtgagct tattcttgac tcatcttctt tatgaagtgg 60
 cgtctgcaat cacctttcca ctttctccat tccgctgcca ttgatcttca agaagtaaag 120
 gactccattg atgaagaaga tccaaggcct aaaagctcaa catggagcta catcactagt 180
 agtacttggt ctttctctct ccctaagcct aactctcaaa aggagtagtt ctatttggtg 240
 cctatactct tcaacactca tactcccttt tctaagcctt tggagcttgg ccataagctc 300
 cctttcatag taggagggga tgcacctctt cctaagggtg gctttcaagt cattccaata 360
 ctctactaga ggatcccatg aatccttctt ttctaacaa gtgaagtcca cccatagagg 420
 gcataacc 427

<210> 2404
 <211> 271
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2404

agcttccaga ttagtgatgcc anatgaccgc ggctccagcc aagctatctt ggaaaaagtg 60
 cattaacaac ttttcatccc tagaatgcgc ccccatctcg cgacaatata tcttgagatg 120
 gtttttagga catgtcgtcc ctttgtactt gtcaaaatca ggtaccttga attttggggg 180
 atgacgacat ccgataccaa gcaaagatct gccatgtctg cgaacggata gttgccaaag 240
 ccttcaacag ctctcaatct ctcttcgatg a 271

<210> 2405
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2405

tcatggtgaa tcanaggtga ttcanaggtt ntntgatgat aacaatgatg ataacaaaag 60

atgatgacaa aggagatgac aanagctca nagatcaatc aaagaacaac tcaagtgaat 120
 caagaacaat tcaagagttc aagataagaa tcaagaagaa ttcaagactc aagaagaaag 180
 tttagagtca agaatacaaga ttcaagggtc aagatctcaa gaatcaagat caagattcaa 240
 gactcaagat tcaagaatca agagaaggct taatcaagat aagtatgaaa agtttttctc 300
 anaaatggag tagcacatga ttnttctcan aatatgttta ctaaagagtn ttactctct 360
 ggtaatcgat taccagattg ctgtaatcga ttaccagtag caaaattggt ttgaaaagtt 420
 ntcanaattga tttacacgtt ctattaatnn tcaaagtga tcgataca 468

<210> 2406
 <211> 322
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2406

agcttccgtt cccgagagca tctcttattt aagcatttca gcctttgctt tcgtgtagct 60
 taagaaaaac gtcatttctt cttctttctt tcttccaagg ccatttctaa agttccaaga 120
 actttctcca tcaccacag ccaccattag ccaccacaaa ccattggtgt tctccacacc 180
 gagaggaacc cttcaaccga agcggaatct tccaacttgg cttggcgggt cggtagagaa 240
 tgaaacccta atctgacctt tcgttntctt tcgagggaac catggttcta cgcttggttc 300
 ttggtagttt catcttatct tt 322

<210> 2407
 <211> 454
 <212> DNA
 <213> Glycine max
 <400> 2407

gggttcgagg tacttaccg ttgaagatcg aagaacgatg aagaacgaat gaagaacgtc 60
 gaagaacggt tgaaaccttt gcgagattcc tcacggaaaa cgttacggaa acgtttcgga 120
 agcgctcgg cttagatttt cttcacggaa acaatttttc caagcaaatt cgaaagagag 180
 agaagtgcct aaggggctgg acccctttct tcttcacttc ctcccctatt tatagcaaaa 240
 taggggaggt ggttgccgcc cagctcgccc aggcgagctc agctcgcca ggcgagcagg 300

gttgcttcoct ccagaagcaa ccgccttctg gaggaatctt ctggagggcc caaatgggcc 360
 tgggtgctat ttgcaccccc cattttacta agtacacccc ccctctgctg gtttttggag 420
 atcttttttc gtaatgtacg gaaacttacg aatt 454

<210> 2408
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2408

tctctctttc acacactata ggtngtgata tttctgacaa gcggtaaattg ttatgaaaga 60
 agatatattt tctaaggaac actcacgcac tctagggacc tgtgttgaat taccaaaggg 120
 gtgttagaga gctgggtgnt agtgggattt gattactata ctggactctt attgtatcct 180
 tgaacagtgc aatgctagac ttgttgctaa tgtacttact tagaaagatg gcattgatta 240
 tatagagacg gtatnactga tcttacgaaa tgattgtttc aagaattatg ttgacattat 300
 gttgtccatt tatgacttcg gagttacatc actctggatg gtgactactc tcctatctta 360
 actgtgatat tagaggagaa ttgtcgtatt gacctaccga tgggtgttctc tagttgatgg 420
 ataggacatc tcggtgcat actaataaaa tcg 453

<210> 2409
 <211> 442
 <212> DNA
 <213> Glycine max
 <400> 2409

ggcactacca tgtttattaa ttagatttcc gattaccaac atttaatcga tgcactctat 60
 aatttaaagt tttttagaat taattgtctc ccacaatatt tctatcttgc tccattattt 120
 ttcacttgag ttatgggttt aactagaaaa tcttgtagt tctattgctc ctaactcgaa 180
 gtacattggt aaatttagat tttcgtttat cgataaatat taatttttgt tatgaatgtc 240
 agttaaaaaa aaatgaacca ctaactctct cctctgctt cctcccttta ctttttctca 300
 acaactcacc tattcttata cctccaaatt cttagaaatt aaacttaagc accatggaca 360
 taagtgtcgc acgatggaat atataatcac acatctcatg ctatatttat atgtgatcaa 420
 ttaagcttta cgaacatgat at 442

<210> 2410
 <211> 434
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2410

agctagaaga agttttgggt tttacttgcc caactccttt gactgacatt tgtattgggt 60
 gttatcttga ttgatgcac ttantacatt tggtatctgc ttgcatcct gcatcatcat 120
 ggtagtatc aagaaaagtt tctaagttaa aaaaatttct tcagaggtaa aaactctcta 180
 ttttaatcga ttacagagtt gtcgtaatcg attacaacaa gctggttgaa gcttacagaa 240
 gtaagtctca tatcggttta atcgattaca atagtatttt aattgatttc actggtgtta 300
 gaccatgact gatctttttc aggagtctca actctaatac attaccaagt ggattaatcg 360
 attacttctc tctcgttcaa gtgttcaaag gagaactaga acactctaata cgattatatt 420
 ggtcttgagt tatt 434

<210> 2411
 <211> 408
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2411

tggcccttct ccttttatgt ttcacaaagt gttgctagaa catgttaact atgaaaaggt 60
 tattgaaaaa cggtggagcc attaattagt tgggtgtcct atgtttgtct taatatgcaa 120
 gctgaaagtc ataattatga atctaaataa atctctcttt ggtgatattc atgataaagt 180
 taattcttgt tataaaccta ttgaagttat ccaatatgaa attagnatg ttgcattttg 240
 tgatgctcgg aaggacaatg aggctaaagc cctattagat cttgatcaag ctctctcttg 300
 catgagactt tatggaagga aaatgctttg cgaaatggaa ttgccattgt aatacattct 360
 attgtcacat gactcaagt catcaaacat caaaacgggt tatatact 408

<210> 2412
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 2412

agcttccttg ataagctaga gcttaactac acacaccct ctgataacta agctcacctt 60
cttgagaaac tttcttgaaa agcttccttg agaagattcc tagagaagct agagcttagc 120
tacacacacg ctcttaataa ctaagcgtca ccttcttgaa atgagaaggt agagcttagc 180
tttttgtatc aagtgacgcc agaatagtta agaggagggg gctgaattaa ttactcgcta 240
acctttacta att 253

<210> 2413

<211> 380

<212> DNA

<213> Glycine max

<400> 2413

tgtgacattt gtcagcatca gatgtatagc gctatctcac ctgtaggatt gctgcaacct 60
cttgctattc cggaacaggt ctgggaggat gtatctattg attttatcac agggttgcct 120
tggtccagag gctatgaagc tattctgggt gttgcggaca ggctgaccaa atatagccat 180
tctgttccat tgaaacaccc ttatactgcc aaaggaattg ttgagatttt ctctgggaag 240
tactgatgct acatggagtt ccacaatctc tcgcgagtga tagagatcct ttatttatga 300
gtttgtcttg gaacgaacta tttaatttac acgcgacaat gctcaagatg agtacaactt 360
accttccgca gactgatgga 380

<210> 2414

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2414

agcttctata gaaggggttct tcctaatttc tcaacaattg cctcacctct caatgagctg 60
gtgaagaaga aggtggcatt tacttgggggt gaaagacaag agtaagcctt tgctttgctc 120
aaagaaaagc ttactaaggc acctattcta gctcttcttg actnttctaa aacttttgag 180
ctagaatgtg atgcctatgg agtgggagtt agagctgtat tgttacaagg tgggcactct 240
attgcttatt ttagtgaana acttcatggt gccaccctca actacccac ctatgataaa 300

aagctntatg ccttaataag agccctccaa acttggaac attaccttg tgtcaaggga 360
 atttgcattc atagtgatca tgaatcactt aagtacatta gagggcaaag caagttaaac 420
 aaa 423

<210> 2415
 <211> 480
 <212> DNA
 <213> Glycine max

<400> 2415

taacataagg catgtgaagt ggggtgaatt cctagagcaa ttcccttatg ttatcaaaca 60
 taaaaaggga aaaggtaata ttgtagccga tgctctttct cggcgatcatg cattactttc 120
 tatgcttgaa acataattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga 180
 aacttttgga gaaatcttta aaaattgtga aaatttttca gaaaatgggtt acttttagaca 240
 tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta caagaaattt 300
 gtcttgttgt gaagcacatg aatgagggtt aatggggcat tttgggggtcc aaaagactct 360
 agaaacatta caagaacatt cttataggcc tcatatgaaa aaggatgtgc ataaattttg 420
 tgaacattgc attgtatgta aaaaggcaaa gtctaaggta aagcctcatg gactgatact 480

<210> 2416
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 2416

agagagaggt gaggtgagca tactaatgat tgaggaaaag agagagagaa gctgaactct 60
 gaaatgtgtc tcacaagact ctcatcttc aaagatacaa caagcgtcac acatgcttgg 120
 atatatagac taggtagctt tcgtgagaag cttctactat aagctccctt gagaggctac 180
 agcttagcta cacacacccc tctactagct aagcttacct ccttgagaag cttccttgag 240
 aagcttacgt aagaaac 257

<210> 2417
 <211> 502
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2417

tcanaccaca gcaacacaga atctaggtgt ccaaaacccc tcatatcaat gggttttcta 60
ggtttgaaaa gtgaaattta gaatgaggtg aanttgaagc aaactctcac ctcacacaag 120
tccataacat caatctaaac ttgcccaaac tggatttaca cctaaaattc caccaaata 180
aaatttgact cttcaacacc caattttgcc ctagaaatgg ctcttggttc actttggtca 240
tttggttttc tctctagctc agcctaacct ttctcacatg ttctaaatga aatttcaagc 300
tagtattaac tcaacttaac ctccatttac cacagaattc agacttaggc ttccaactct 360
caaagtctca ctctttttcc actcataaca tcacattctc acttttctaac cttggggttag 420
ttctaccctt catctctaac agatgttcat cagcaatttc agcatataaa catcacanac 480
atcattacat aaaccctaaa ca 502

<210> 2418
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2418

agcttctatg ttcaatttcg agcgtttcaa tatattatgt gcctgaatcg gacattcgtg 60
tgaaaagtta cgaccatttg aatttcttga gaacttctat tnttcaagtt caagtgcctt 120
tatatatcat gggcctcaat cgtatatcca tctcaaaagt tatggtcgtc tgaattggac 180
aagagctttc gtgttgaatt tcgagcgtct cgatatattg tggacctgaa tcggacatcc 240
gagtaaaact ttatgaccat ttgaatttcc ctataacttc cagtattaaa tatggagccg 300
tttgatatat catgggactt aatcgtacat tcatgttaat agttatggcc gtctgaattg 360
gactaaagct tctgcgttca attttgagcg tctgatata ttat 404

<210> 2419
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2419

tcatggagaa tcaaagggtg ttcanagggtg gtttgatgat aacataagat gatgacaaag 60

gtgatgacaa aaagctcana gatcaatcaa agaacaactc aagtgaatca agaacaattc 120
aagagttcaa gataagaatc aagaagaatt caagactcaa gaagaaagtt tagaatcaag 180
aatcaagatt caaggttcaa gatctcaaga atcaagatca agattcaaga ctcaagattc 240
aagaatcaag agaaggctta atcaagataa gtatgaaaag gtttttctca caaattgaat 300
agcacatggt ttttctcaag acatgtttac caaagagttt ttactctctg gtaatcgatt 360
accatattgt tgtaatcgat taccagtagc acaatggagt tgaaaagttt taaattgaat 420
ta 422

<210> 2420
<211> 325
<212> DNA
<213> Glycine max

<400> 2420

gatctacttt agggctaggg ttagggttat tggccgatac gtcttggtcg tctcttcgat 60
acgatctaag ttattctatc atccacaaca ttccggcacc gtcatacaca tctaggagta 120
tgaatttaac tattagtatt tatttatttc gtgataaacg atttgctcga tagacaacct 180
tcgtgaagag gcctcctact ggtgaattct ataagaaata tgaacgtgag actctttctc 240
tataacttta ttattactaa ctttttaatt tgggtatatct tattcttttg tagactatgc 300
ttactccgaa ccagcgacca ttggt 325

<210> 2421
<211> 495
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2421

tatacatact caagctcgca caggagtgtg aggtgatact gagtattctt ttcaacaatg 60
actggccttc aattagtggg gattctgagg aagatgaata tggctccacg actggaaatg 120
aaagcaaagc gacgctgatg catgttccaa aagaacttgc tgaaattgac aacatggaga 180
acacgttcac caaactaact ctatcagcac tgcgtagctt ggaagaaatt atgggtagaa 240
gctcaactgt tagcattttc tcattgccta ctttgcataa ctaggctttg caactgcaag 300

aggattggaa aataaaatga ctgcactagc gactgcaacc aaataggtcc tcaggataac 360
 atagatcttc tcgtgtttat cttcacatct atcttaatgt ttattagaan agaaatagac 420
 acagaattta gacatgagtn gccatttata caagaggatc catctccctg tttaatggta 480
 gatttcatat gaaac 495

<210> 2422
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2422

agcttcttat ccaagacact ctctggngg tgaaacttct catttcatgg cttattctct 60
 aatggatggc gtctcatcgc accttttctc ctttatcttc cgctgctact ccatggctga 120
 aaagcaccat tgaaggacct tattgaagct caaagattca gcctccatag aagcttctca 180
 agcaagcttc catcaacaca tttgcatgta ggaggaatag tgaattgtga agatgacatt 240
 tcaggacctc gcattcttgc tctctctctc tcccacgtaa gtttctcctc tctctcttta 300
 ttttatttta tcaaaatggt tgggattagg tggaaaatcc cattttcgta ggcccatn 360
 gtgttttcta atgggagttg ataatgggtcc ctactaaaa 399

<210> 2423
 <211> 491
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2423

nggattgatt cagtctaact agggatcgag gttagtaat ttaggctaca acgtagtaca 60
 cagaatcatg attgattaga gaaacatctc tatatacatc agctgggttg ttagaaagac 120
 ccaacacctt tacctactgc tgtcaatctt acttacttgc atttttacta tttttagcca 180
 agacttagtt taattctggt ctaaatactc aattatcaat gtttctttca acaatgcctt 240
 atttctgaat ttaacctgt ctaatactag ttccctgagt tcgatactcg aattcatccg 300
 ttttaatttt aaatacttga caatccggtg cactttccgg caaacggat ttcccttgaa 360
 catatttgta taaagaaaaa atggaccaa aagtaactac agggtaaata caacaaagta 420

tttatggcgc tcgtgctggc gatctagatt cattagaaga gtttatgttc agtttacgac 480
attgctttat a 491

<210> 2424
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2424

actcatttta tatatagctt aagggtgtgtt tgggtttgtat tttcattttt tgttttcatt 60
tcctgttntc agnttctgac actactagga aataaggttt ttacatcaat tatttaagac 120
tttcaacatc ggttattaac cgatgttgaa agtcccgatg ttgaaagtaa tatcggttaac 180
atctgttttt caaaatcgat ggtaactaat aaatacaaca tttgggtattt aaatagccaa 240
tgttacatga taagaatttt gaanaaagaa atttataaat ttacatatca acatcgcggt 300
atttaaaaac cgatgttaac tagcactaaa agtcaatgtt aactgtcact aacaaca 357

<210> 2425
<211> 415
<212> DNA
<213> Glycine max

<400> 2425

atacactact caagcttctt atccaaggca actcttggtg gtgaagctcc ttcttccttg 60
tcttattccc tagtggatgg tgctcccct atactcttct cctttgcctt ccgctgcatc 120
tccatggtga aaaatcacca ttgaaggacc tcattgaagc tcaaagatcc agcctccata 180
gaagctccac aagcaagctt ccatcacatt cctcacaat cctccttag tggatgtagt 240
ggtggaggag acctccttac ttcaccctac ttctcttccg ccatgactta gggagatatt 300
tttcttttgt cttcttcttt acttttatgt gacttggtcca aatatattga ttgctttgat 360
tgttcatgat cttatgattg tgctacattg aggacaatgt gttgtttaag tgtga 415

<210> 2426
<211> 267
<212> DNA
<213> Glycine max

<400> 2426

gtgactcgcg ggatgcgtgt tccacgaaag gaatacgcgc ggagtcgcca ccaacgttta 60
 tttgacgaaa acgtcggata gaccggaaga gacgcgatct acgaactttt taagtgaaag 120
 gttcgggagt tgtattttacg cacgtagaag gtattagcac tccgcatgcc cgtcccatgg 180
 gactggtagc ctttcaatcg aatgtgcaaa catgactttg atttttatgt tcccttttat 240
 gttcttatat ccttgatacc cttttta 267

<210> 2427
 <211> 364
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2427

tgtaatcgat tacacaagtc ttgtaatcga ttaccagagt atattttcag aanataattt 60
 ccaagagtca catctattca aatggtttat gaatggccat caaaggtcta tttatatgtg 120
 acttggaac acgaattatg agagagattt cattgccc aaagttttat cctctcataa 180
 gattaagaga gtttttctga attgaaatgt cttatcctct caaaaagata ccttgggtcaa 240
 acatttgc attcgataag gaattttgat tgatcttcat tgtataatct atctctttca 300
 agggagatat cttcttctct tcttcttatt tctggaaaaa agggattaag agaccgacgg 360
 tctc 364

<210> 2428
 <211> 317
 <212> DNA
 <213> Glycine max
 <400> 2428

tggatgatac gactgattgt attaggggtct ctctctccac gaaagagacg tgtctttgtt 60
 tccactttgc tagctttctc tcacatttgg tgataatagg atcccacaac tcacaccgcc 120
 tatggtttgt ccaattggat acccaaaaaa tgaatggtag gacaacaact gcagttatgt 180
 atgttgcaac ttcttcttca gagatcgggt cccaatgccc aaacaactct tcgagaattt 240
 atttgaggct tgatacaagt caagctctc aaatgggttt ggtgcctaac attttcattg 300
 gtgctcaccg aaaatat 317

<210> 2429
 <211> 325
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2429

nggcatctgc aatgggagct ntgttcttgc cttgtttgta gcatgctaga aacaactgaa 60
 aaaggatgat aggctaataag gttattagaa acagtgatat ggtgggtgtat aataactcaat 120
 ccaacacata acaatggaaa caaaaattta tgtgttctct ctctagactc tgctatcaaa 180
 tgtcgntggt atgaaactta tttttctgct tctttgtctc gatgccgact aaaacaaaat 240
 aatcaaatcg tgagatttgt ttctattggt taatttgcaa attgactttg tttcaaaatt 300
 caatctgata ttatatttct ttatc 325

<210> 2430
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2430

agctttctttc cggaagggtg tttagcaatg tgtgagagcg caagcatctt cttcttctcc 60
 ttctctgcct cgctgtcact ccccatctct ctctgcatc ttaattggag aagaagaaag 120
 aagcttcaga gctttaaac ctctctctta gctagggttt aatttaggat tcacacgcta 180
 tggcgccgcg cgtgacttat caaatgttta ttactcgccc cactccatga ttngatcaca 240
 cccagcctca tatcggcctt aaaacttggg cctatcta at ggaccagaaa gcgctatgcy 300
 attccaaccc aatattttgc tatattcaca ttatatnttg tgttatttct gtttctgaaa 360
 atacccccac ctttccgtta tacaatat acaaagtggg tccgttgtat a 411

<210> 2431
 <211> 481
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2431

tagccaacta gatggattac catnttcttc atatnttct ntttgtagt ctatgccact 60

atgttctcta gagttggaga attatatcca atgatagtgt gttcctttgg gtatattagt 120
tcaagtatag aaaaatatgt gctctgggtg gtcatttat tcatgtatga aattaaattt 180
gaagagttta tatttgccaa caatctcttt ggtctttcag atgatggcga tgggggatat 240
gatgatgatn tggaagaact gatggataat tccgtaagca tgaaataatc tgtactagct 300
atggtgtgtg tatacatatt tgaggaggga tcaagttatt ccaagagtaa ctttaagggtg 360
ggcacttgat agatgggaaa tttttactat cccaganatc ttaaagtgga aaactatgat 420
tctcatgttt ggtatgcaca taataaagaa gactgtcaag aaactatgat ttccgtgaat 480
c 481

<210> 2432
<211> 311
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2432

catgcaagct tgaatcattc tatgcaccct taggcgttca ttcttgcttt gtatgttattc 60
atcttcatct cgtctacttt cagtattctt tttttacgtt ttaaacgagt ctcgaccgat 120
cgtttaagcc gtatcctcac ttaactaatg ataacacgaa tctccatcga tcgtttgtgt 180
tgtaaagttg tgtaatcacc ttttaaataga atatcaacca atcatttgcg ttgtaatccc 240
gtttaattca tcntgagata ccttaatttc gtccggggat cattgcttgt tggatgaga 300
ctatcgcttg a 311

<210> 2433
<211> 442
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2433

ntntattgta atcttgagat tcaggacagc actctgattt ctgaaatatt tgggataaaa 60
atggtcattg accagtcctt tttccatgac ttaaccaaata taccagtgga cgggtgtacca 120
tttgaaggta cactgaatga cgactgaaaa tttgatttct ctgcccatga tgcccgcag 180
ttggtttgca ccaacaatgc ggatatgacc ggacgtcttc ttgccggggtc attggctttt 240

gaaagccgca tccttcaacta ttttaattgtg cgtattttgc ttccacgggc ttccaacctt 300
 gccaggttt ctgaggaaga tctaattatc atgtgggcct ttcatacagg gtgtcaactt 360
 gactgggcac acttagtcag atatcgcatg cataaggcat tgccaataaa tgctccatta 420
 ccatatccac agcttgtcac tc 442

<210> 2434
 <211> 558
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2434

gggttgaacc attgagatca aggccctttc gaagccggga tactgtatag tgacctgcat 60
 gcatgtcagc ttggaaggta gtcatacctc acaanataa tatatatata tatatatata 120
 tatatatata tatatatata catatatata tatatatatg cgtgccgagg tagccagata 180
 ccttggatat gcatgtatat agcacaata cctcacaaa tatatatatg tatgtgtagg 240
 tagcataata cctcgtgaga aataaacgat caaaaaacat ggtgagagca taaaatatct 300
 ctgtcgtgtg ataagccaac actgcttcgt agagagataa ctcttagctc ttctttgaaa 360
 gatgaatcat ctgatcatag ccatgtcttt ttgaaanact atatgtgtat acaccctgaa 420
 ggtgtgaatg cgtgtggaca ttctttccga acaccacag atggacttgg atgaatgcat 480
 gatttgatat aagaacatat tctataaaca ctgggtcgct taaataagga caaagaatcc 540
 tgacctcac gttcatcg 558

<210> 2435
 <211> 417
 <212> DNA
 <213> Glycine max
 <400> 2435

taacatcata tgaagccatg gataagagct tgtatgagga gatgatgagg ggaaggagaa 60
 cgagagaatg agcacgaaat tttgtgcctc acatgaggtc tgaactttga agcgttattc 120
 ccaaatgatc aaagttaaaa aaatgcacac gcatgacctc tatttatagc ctaagtgtca 180
 cacaaaattg gagggaaatt tgaaattcta ttcaaaattt acttgaattt gaaattgaat 240

ttgtggagca aaatTTTtTga gccaaaatTT cactaattat gattagggga atttagctat 300
 ggTtcagccc actaatacaa gatcaagtcc aagattctcc actaagtgtg tttaggtgtc 360
 atgagacatg taaagcatga aggacatgcg caaagtgtga ctatatgata tgacaat 417

<210> 2436
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 2436

tagcttgaac tatatgagat ttgaatctaa ttttacttgg atcaacaata taatatatat 60
 ttaatttata gttgaaaata cggaaaaaca agaattttga tctattgata acatcatatt 120
 tacctccatc gcaatgttat aatacgttct agaacatgct catattgggt tcgtaatagt 180
 tgatattgat ttactcatag agctgaatat aagaacaatt gtcggtttta aagtacgtga 240
 tattctttat aaaataaaac ggtgggttata gttaatggaa ataataaaat taagaaatgt 300
 actttattaa gctcgcgaat caatagctgt atttaaaaca atatgtctat tacttgttgc 360
 ataacttgcc acgtctgtct tctaactgta cttgaatatt taatgacgga tatagt 416

<210> 2437
 <211> 612
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2437

cactgtgtca cantcaaaca ctatcgttct tactatatan cntatattan annccggggc 60
 ccaggatttg aacctgtagt agccttgtat cgatactaag ctgtggacaa tagactctgc 120
 cgctagtata actatgacag gcatcttgta ttcctataca agagagtata aactctgatg 180
 aagaatatga cagtgcctatg cttgaatgta ttagcaacat gcttttcagt actcccgtag 240
 agaagtctga tcgatctcct tctattggag gatcactcaa gacatctaca tgttgacatc 300
 gtgaaagcat aggttctctt tattatcgca ccggtgtgga cacgaatgtt gaaatcaatc 360
 acttgcgagt aatgttatct ctttctgtgc cagtgcacaa actagtgatc atcttgcttc 420
 cacatcttga atgtggcgcc tacatagata taatatcacc aggtttcagc ctgggttatg 480
 aagaatagcc ttgatttatg gtaagatatt tatgatgatc gtgatcggat aaccgctcct 540

tcaaacatcg accatatacc gctgacagat taggtaatta ctgtgccac agttctgttc 600
atcactcctt cn 612

<210> 2438
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2438

agcttctgtc ttgtaaccta tagaattgct tttgaaaatc tttntttttt ttatggcaga 60
cattatttaa ctatactttg cttcattcac atgatgctgc ttcttttgtc aattaaatga 120
aaaggggtggg tagcatttga tccttatgat tccagatcta gttgaaagtt gtgccagaat 180
ttttctaaaa atattttaac tgataacatt caaatgaagt agcttcattt gacaattaaa 240
tgaaacgagt gggcagcact tgatccttat gatttcagat ttaattgtac gtgttgcttg 300
aagtttttat aaaaagtata ttttgtcttt ttaactgata tgtcattcac atgggtggtac 360
ttcactttgt cagtaaatga aaggggggtgg tagcatttga tttgattatt ccagatctag 420
ttgatagtgg taccctaaag tttcta 446

<210> 2439
<211> 484
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2439

tctttnggac cttgaacagg caactaactc ctctttcana accatgctat gtgctcgca 60
atgggtccctc tcttcccttc gcagcttgag ttcattgttg ctacccaca gagctccacg 120
aaatttatcc cgccataact cttccttgcg agccctcttg gtctcttggt caagggctct 180
tgcagtagtt gcattctctt cccgtaaccc ggcacactcc ttccgaatgt gtgtagcgtc 240
caacttgaac ttctccttgg caagtttcgc ctttccctaac tcgcttttga gagcttggac 300
ttcttcgtcc tcttccggtg cttcaaaaact ttcttcgctg acgactttta acttggtgag 360
ccaatctaaa cctcgtacat gaacttttaa ccattcatgg taccaccaa tgatgccatt 420
acgaatgccc ctaagttctt gatcttttct taacgggggt tcccatgcct tatggattct 480

ttgg

484

<210> 2440
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2440

agcttccttg agaagcaagg aaggtagcat ccttgagaag ctacaggggg gctactcaca 60
 cctctccatt agcaaagctc gcccccatgc caaaatacat gaaaatacaa tggtaagctt 120
 ccttgagaag caaggaaggt agctttcttt ggaagcaagg aagaaagctt ccttgagaag 180
 ctagaggggg gctactcaca cccctccaat agctaagctc acccccatgc caaaatacat 240
 gaanatacaa aaaaagtctt tactacaaag actactcata atgccctgaa atacaaggct 300
 agaaccctat actactaggg taccctaac ttgtaccctt aatctgtaga gtaccctaca 360
 tacctaaa 368

<210> 2441
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2441

ntngaaaaca nactntgcca ttggtaatcg attacaggaa tctggtaatc aattacaaga 60
 gagtaaaaac tctgatgaan aataaaattg tgctatgttt gttttttttg aaaaatcttt 120
 tcaatacttc ccttgtgaag tcttcttgat ttcttctctt gaaagatctt gaattcatct 180
 tctcttgaat cttgaaatca aatttctctt gattcttgaa ttgttcttga ctcaatcttg 240
 aaatcattct cttgggattt ttgtcatcac ctttgttatc atcaaaacaa cttgaatcaa 300
 tcttgattca acatcatgaa gcttgcttct acagaaatta gttatgagtt ggttttatct 360
 tggnttatgt gtattaacct ttaatctttt ttaaagataa ctgcgggcac taatgatcgg 420
 ttaaaccta cttt 434

<210> 2442
 <211> 421

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2442

agcttagcat attgcaattg gatgcttccc gccaccagtg atcaagcctc tttgatagcc 60
ttaaacaatct ttctttcatc aatgtgcaca ctataatgtt ctctgaaatg ttcattgtggc 120
tccacatgat ttaggtttgg atgaaaccta agcttatcag ccaccctttt ttccatccat 180
ttcattgtag cttgtttatt tttgaagacc cttccatata tgtgctcctc caaaaaagtg 240
ttgatttgaa agcttcttgt aacttcgaac catgaacaat aaatntccca tgaacatcca 300
acttggttac aacgcgctct agcttgaatg ttgtcaactt ttaccattt cagatctctg 360
ccatggaaaa tagttaagtc tctaacaact tcaataaaca ttttgatgct atcaaactcc 420
a 421

<210> 2443
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2443

tcatgatgaa tcaagattga ttaaaagagt nttgatgata acatagatga tgacaaatag 60
ctcanaagtc aagaacactt catgttaaca aagatgatga cttcaagaat caaagaatga 120
gttcaagatt gaatcaagaa cacttcaagg atcaaaagga aatttgattt caagaatcaa 180
gaatcaagtt tcaagattca agttccaaga atcaagatca agattcaaga ctcaagattc 240
aagaatcaag agaagattca atcacgataa gtattaaaaa gattnttcaa aaactgagta 300
gcacatgaat ttttctcaca aaccttttac cacagagttt ttactctctg gtaatcgatt 360
accagattgg ttgtatcgat taccagtagc acaatgcttt tcaaaaagct ttcaactgaa 420
ttacaatgtt caattgattt aaaatctgta tcgatatatg atttgaatc 470

<210> 2444
<211> 468
<212> DNA
<213> Glycine max

<400> 2444

ttagagttta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120
 gaacaccctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180
 agtgattctt tccttccttt catcttcacc cttgttcttt caaaccacaa ttccagaaaa 240
 tccacctctg cccagaatta tctcgtggcc ataactccca ttttatgcac tcaaantaag 300
 tgattcttga gcctaaattg actttcanaa cgagaccttt cacctcgttt tggaatcacc 360
 tcatttggag ccctgtagcn ttcagtattg ccatttctat atttctgtcc agccaccact 420
 taaccta 427

<210> 2447
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 2447
 agatggcctc aggatattcc ttatatccag actggaatac gatcaataga cctcctatct 60
 ttaatggaga gggttgccgc tactggaaca cccgaatgca ggtttttatc gcggcaatag 120
 atctaaatat ctgggaagcc attgaaatag ggccttatat acccaccaca gtacaaagag 180
 acacaatatg aaggagctga tcaagtgaag gcatagccat agataaacct agagatagat 240
 gggctgaaga ggatagaaga cgagtacaat acagcctaaa agccaaaaac ataatagcat 300
 ctgccctacg aatggatgaa tatagcacag ctccacattg caagagtgtc agcgaaatgt 360
 gggacactgt tcgagtaaca cactgaagga actacagatg ttcatagatc taggataaat 420
 gcactaactc atgagtatga att 443

<210> 2448
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 2448
 gtttttgccc aaatggagac actggatgtc tgctgtctc aagtcagcta gcatttctat 60
 tcttatcaat ggcagtccta caaaggatat tgctcctact agaggtttga ggcaagggga 120
 tccttttagcc cccttactct ttaatatagt tggagaagga atcacaggat tgatgagggga 180
 agcagttcag aagaacttat atataagcta tatggctgga aagaaaaagg aaccattaa 240

tatattgcag tatgcgatg acacagtttt tgtgggtgag gctgagtggg agaatttat 300
tgttttgagg ctatgctc 318

<210> 2449
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2449

tctcccttat tatgctataa atatggggag aagtgaagaa gaaaagggtt cagccctta 60
gacacttctc tctctttcga atttgctgag gaaaattagt tctgtgaaga anattcgagc 120
cgaggcgctt ccgtaacgtt tccgtgagta gttacgtgaa gattctcgac cgttcttcan 180
agattcatcg ttcgttcttc gttttcttca gtcttcaacg ggtaagtacc tcaaaccaag 240
cttttcaatt cactctatgt acccgtgggtg gtccacattn tggttcatgt atttttattc 300
tcggtttcat ttacttttta taccctcttt tgacgtgctt aagccattta ttttaagtc 360
ttctcgctta atct 374

<210> 2450
<211> 419
<212> DNA
<213> Glycine max

<400> 2450

ctaagtagca ctcaaaccag gtgtatgtac cttcaaggcc tacactccga agagtccgtc 60
aagatctctc cctcctgatt tatgaccaac ccctacaata atatttgcg gcagacaccg 120
ctcatgaatt atacaatact cacgacctcc cactgttgt ttacacacgt tcaacataat 180
tgactataa ttttaactg gttcctaaat taaaaaccta catttttctt ttaacattgc 240
gcataataaa ttttctcaag ataaactg gtcaggctat tgtacaattc acaactcacg 300
acacaagtaa tgttacatca agtattaacc acacacttat tcataactaa aactcatgtt 360
cacaatttca catctcttaa tatcacaatc caccatcaca tgtttacatg tatatcaca 419

<210> 2451
<211> 492
<212> DNA

<213> Glycine max

<400> 2451

gggaaggtag tcatacctca caaaatatat gtaggtgtg ttaagtagcg aacatacctt 60
ggatatgcat gtagtaatt taggtggcaa aaaaaatacc tcaaaatata tatgtgtgtg 120
tgtgtgtgtg tgtgtgtgtg tgtgtgtgta tgtttaagta ctaagatacc ttggatatgc 180
atgtgtatag cacaaatacc tcacaaaaca tatatatgta tgtttatgta gcaagatacc 240
ttggatacac atgtatatag caataatacc ctccataaat attctcatgt gtagtagct 300
aaatacctca tcgatgaaaa taacacaggc gaccatgaag cataaatata tctttcggct 360
gaagagacag cacacttttg agtgagataa cttccagctt tttcttgaa agattcaccg 420
actattacac cccttttgtc aaaaattgtg ttgcaccctg agggtgagcc attatttggt 480
aataacattt cg 492

<210> 2452

<211> 384

<212> DNA

<213> Glycine max

<400> 2452

gcaagcttcg aagatagtga tgaggtacaa gccctatagg cagagcttga aagagtccga 60
gtagtcgaag agaagttcaa gtccatagcc atcaaaagtc tgaaaagagt atgatgaact 120
aaggggacgtc aatatggcca ccgctgaagc cttggaacga gaaaccaaga agggccgata 180
ggaagaacac gaccaaagca aagttttgag ggggcttata gggcagcaat agtgagctca 240
cgctccaaag aggtgaaagg aatcatcacg ggtcataggc atgatctgga aggacgagct 300
ataggtttgc cttatgtcga aaagaaaatt gtcccaacag ttaaaccgag actgaatgga 360
atatgtgggc catcatcgat aagt 384

<210> 2453

<211> 486

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2453

tatgcgcata tttccttaca aacgttctct tgcacaagaa cattctatta accgaaaaaa 60

tgcacccata tacaatcaag gcagcttcgt tacctagatt atttacacgt acttccaagg 120
 tgtatttggt acttacatca cacacctcct tggctaaatt cacatacatg cataactcaa 180
 gcattttggg gtacacaaaa ttgcacatgt gcacatcttg gtattttctaa tacctataca 240
 tacacaaact tcatgatgaa tcttgactat ctacacaata aggtgctaca ttntatgctc 300
 ttttcaagtt tttgctacct aaagccgcat ccaaattcaa gtatatatttc ctttgctgaa 360
 ctaaaatgta ttcaaattaa aaggatataca ttntttggta atgtatcttc tttacataac 420
 atgcaacata tttatgtata ttnttttggt agacattntg actaccaaaa attatatgta 480
 cataca 486

<210> 2454
 <211> 433
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2454

agcattgcaa taatttcaat agttctatcg aacatatcaa tagacacgctc gttttttcaa 60
 atattttgtg taggtaactg ttacacgtca attcctgtcc ccaaagatta tggattagag 120
 attttaattt aggattccta taaataatat tataaagtta gaaacattaa aacaattgat 180
 ttcagaaatt aatgtgaaag agattatgcc aaaattttgt tctggaacct ggataagatt 240
 gctatatattt aaagtaaatt atattgtaaa ataatatcat ataaaggtaa ttttttattt 300
 ggtaacatga aaactntata tgcaagtcaa aatccaaatt taaacatctt gtttctcaaa 360
 taataataaa ctatatccca attttattaa ggggataccc ttctgggata tatatatata 420
 tatatatata tat 433

<210> 2455
 <211> 432
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2455

ggctctanat ntacattgat gtttgtattt attggaggag gttgtatgcc atttttgttt 60
 taagggtagc atttcttggt aaaaactaac tttccaaatg tttgccttcg caggaatggc 120

cccgaggaag cttgcctcaa agaggtccag gaaggacaag gcggccgaag gaactagttc 180
 cgctccggag tacgacagtc accgctttat gagcgctgta caccagcagc gcttcgaggc 240
 catcaaggga tggtcgtttc tccgggagcg acgcgtccag ctcagggacg acgagtatac 300
 tgatttccag gaggaaatag ggcgcggcg gtgggcatca ctggttactc ccatggccaa 360
 gttcgatcca gaaatagtcc ttgagtttta tgccaatgct tgcgcaacag aggagggcgt 420
 gcgtgacatg ag 432

<210> 2456
 <211> 416
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2456

tactcaagcc ccgactgggg acattggtga gggacgaaag atggngatgg atgtggagcc 60
 atgttagana aatgctcaca catggcatca actatgctgg ccagctcgga gtgtttctcg 120
 gcgaggggtg agatggcttc ttcgagtcta tccgtggtgg tacaacgggt tccgtgttct 180
 gccatggtag caagtcggac cagctgttaa gagctgatga gagagagaga gagagagatt 240
 actacactaa gctaatacta ggaaatgatt tctttgcttt attcatgagt gagctgtcct 300
 tctatacaca ggtcttācat tgctatggct tacaatggca ccaactacct tgcaataaca 360
 gaataaccac cctattgtaa ctaactaacg gtatccctaa ctaactggta tccatg 416

<210> 2457
 <211> 225
 <212> DNA
 <213> Glycine max

 <400> 2457

agcttttcac tcggatgtcc gattccggag cataatatat cgagacgctc gaaattgagc 60
 aacggaagct cttgagaaat tcaaattggtc ataactttcc acatggatgt ctgattaaga 120
 cgcataatat atcaagatgt tcgaaattga acaacgaaag ctctcgagaa attcaaatag 180
 tcataacttt tcaactcggag ggtccgatca tgcgcataat atatc 225

<210> 2458

<211> 362
 <212> DNA
 <213> Glycine max

<400> 2458

ctgcctttgc cctgatatat cttgaggact catggtcact atgaatgaca aagtccttgg 60
 gataaaggta gtgttgccat cgtttcaaag cccgtactaa cgcatacaac ttcttatcat 120
 aagggtgaata gttaacggta tgaccactta acatttcact aaaataagca atcggatggc 180
 cttcttgcac caacacaggc ccaattccca catttgaagc atcacactca atctccaaag 240
 attcttgaaa gtttggcaac gcaagtatgg cggcattagt tagctcttgc ttaagaacat 300
 tgaaagcttc ttcttggttc tctccccatt tgaaaccaac aattttcttg aacacttcat 360
 tg 362

<210> 2459
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2459

agcttcacac catgtgcatt tctgttcttt agacagtctc agcatagttg cggttgagac 60
 acaatgcaac tttgtatcac aaacaaacct tcctttgcag ttatatttaa ctgcgcagat 120
 tctgctgctg tccatataatn tattaatttg tacttgattn ttaagcttaa actgaaacga 180
 ggccctagag aacaaaagac atcttctctg tacaatggca gagaataaat ataattatat 240
 ataattgttg ggggaatttc ggtacctccc tatgcggtag acacgcgaca ctattcagcg 300
 atctctcgca aacaacgaaa tttccaaaga cctatactga cattccaata tccaagtcaa 360
 taaatatgtg agatgagt 378

<210> 2460
 <211> 484
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2460

ngctataata ttagttaaaa aatagtttat gaaatttatc acatattatt tttataaaat 60

aatcatacaa acattcatgt cataagataa aataacttaca aataaatctc aaacatatat 120
aattttgtct ttataattaa taatttatgc tattgattta tgaaagtttg tgtatatgta 180
acctaactta atcttaaatt catcaattac aactatattt gataagacat ttcagttaat 240
ttttaatttt tttcactagc taaaaaattt gtttgactat ttagaaaaca agtttttttt 300
aatagtttct aacatttttt caaactattt gaagtaacat tntttaaaac cttagatttg 360
aaattctaac tttntatatt ttttttcatt gttataactta atatatttat ccaattntct 420
agttaccatt ttttaagaga tcataattgt attatnngtc aatcatttta tctttttcaa 480
ctac 484

<210> 2461
<211> 462
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2461

gcatgcaagc tcgctgcatt ggaaggggtcc aacaatctat tgttaaagat gactagacga 60
gtaaaattct gcataagaat aatgcgatgg gtggtagtgg ttcttcctat tcttctagtt 120
cagacaaaga caacctggag gagtgtcaga tgctgttaga gtcaaattgt tgatgtttga 180
tgtagtcggt ccaagggcct ctatttcact ttcaggtgtg gcgaaagggt ttgttctctt 240
tagagaagca aatttcaggt gacagggttat gtagatgtga tactatgaaa aanaaactgg 300
ctatggattg aagacaagct aggaagaaat atgttttgga caattacagt ataaatatct 360
cactaacaat tattatcttt cttctttttc taatacatta tattatacat ttatactctc 420
tatttatttc tcaattcttt gctctctaag ggcactatac ta 462

<210> 2462
<211> 318
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2462

cactataact acaaagntct tgattatcct cagcgtcacc aaatttttac cacatcacag 60
caggataaaa aaaaaagcc tttccaggga acctatcaga cggtgacaca tggcagtcaa 120

catctgaggc taatgggtcaa tatccaattg ggacgtcccg gaccaacatt gcagggattt 180
 aaaaaatggg ggactaaatt tgtgaattaa attatagggg ggccaaacgc gaaactggag 240
 caaaagtggg ggaccaaatt tgcaattttg tctcgttaat acaatcttaa cagcacagaa 300
 cttggtgctt ataccaat 318

<210> 2463
 <211> 486
 <212> DNA
 <213> Glycine max

<400> 2463

actcgcgga tgcaagctcg agagagcccg ggtagtcgaa gagaagttca agtccatagc 60
 catcaaagtt tgaaaagagt atgatgaact aagggatgtc aatatggcca ccgatgaagc 120
 cttggaatga gaaaccaaga agggccgaaa ggaagaacac gaccaaagcc aagttttgag 180
 gggctttata gggcagcaat agtgagctca agctccgaag aggtgaaagg aatcatcacg 240
 ggtcataggc atgatcttga aggacgagct aaaggcttgc cttatgtcga aaagaaattt 300
 gtcccaacag ttaagcgaga ctgaagggaa tatgtgggcc atcatcgatg agtgcaaaga 360
 gaagctaaat ctacgagcga ctcacgagca caggctagag gatgagtacg ccaagatatc 420
 agcagatagc gaagcaaggg agaggggtaat tgatttcatg gcaccagagg caacaatgtg 480
 gacgga 486

<210> 2464
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 2464

atacacactc aagccctaac ctcatgtct ctacagctct gtagatttgg gagccaatcc 60
 aatccttgtg tccggactct cagccactta tgatagccgc cgatgatccc attactgctt 120
 cctctaagct ctctgtcctt tcttcacgcc gtatcccatg ccttgccaac tacttggaga 180
 accctcgctg tgtggacact gaaaccccg gcatgaaag gcgtgatgct tccgtctgat 240
 ggcactcctc tcattgggaca tcttcgcat gaagatagaa tcttgattct tccttccttc 300
 tagcgaggga accaattaac agacgcccct ccatgctagc caagagttgg tcccaattcg 360

<210> 2467
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2467

gtatggctcg aaacatgcac cgaggcagag gtacaagaag tttaatgagt ttatgagcaa 60
 ctcaggattc aaaagatgtg acatggacca ttgctgctat gttaaaaaat atactaatag 120
 ttatgttata cttgctgtgt atgttgatga catgttgatt gcaggatcta gtatggcaga 180
 aattaacagg ttgaagcagc agttggcaga taactttgaa atgaaggatc ttggtccagc 240
 taaacaaatc cttggtatga gaattcttag aaacagatca gaaggaattn tgaagctgtc 300
 tcaggagaaa tatatacaca agttgcttga cagggtttac cttggagatt ctaagaccag 360
 gaatacccct ttgggatctc atttgaaagt ttcaaagaag caatcttttg agacagatga 420
 agaanaatgg tacatgtcaa gagtaccata tgcacagca agtgggagtt t 471

<210> 2468
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2468

tcaagctctg cggatntggc cttcgccggc gaaatgatcg aagtgggtct aaaaagaggc 60
 aaatctgatc atcttgTTTT gataaatgca aaaaaaaaaa aaaaaaactg gggcaagtga 120
 aaaggatgag aaggaggagg aaacctatgt tgtgactgcc attcttatac gaccaagttt 180
 cccaccaacc caacaatgtc attactcagc caataacaac ctttctcatt acccaccacc 240
 cagtcaccca caaaggccat ccctaaaatc aaccacaaag cctacctacc gcacttccaa 300
 tgacaaacac caccttttagc ataaacaaa acaccaacca agaaatggaa tttgcagtga 360
 anaagcctgt agaattcacc ccaattccat tgtcctatgc taacttgctc ccatatctac 420
 ttgataattc aatggtagcc ataacccc 448

<210> 2469
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2469

cggatggaca tgagttcgcg cgtgttagac cgngcgtctt aagacaccgc ggctgcaagc 60
tttcattatt atatgtaccc ggatgggccg cgtttgatgg ggtatnttat tctggatggg 120
agactatgat acacaatctt gcgagcttaa gccacgttac tctgaggggtg tgcgcttgc 180
gttaaaaatg aaagagatta ccgccaatcg atggaattga tgagtcgtaa tttcagtaga 240
aaaagtgcga gcgttcggcg tgccgaacca tgtggcggag acaaggaggt aaagtatata 300
ataaaaaataa ggctttggct agaaaaggga agacaatcgg agcgttggtc tttggattct 360
cattttaatc gaatgaataa ttctaagggtg caccaagcct aaataactta ccaggcagct 420
ccccataaag aggattcgag ggggtattgc attctcatca gaagagggga ttttaacgcc 480

<210> 2470
<211> 486
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2470

tgaatcttga ttgtttgaac gaagagagag aatntggcta ttattaaaaa aagactttct 60
ctttcctttn tctaaaagca attgccacat gtctcatttt gagtggagca aaaggggccc 120
acctcttccc cttgatgtga catcatacac agccacaatg agagaaaaat ttgacctttt 180
gaatgctaaa atcctgcctc gggtttgcatg tcgectctat ggttccagtt cctcatgttt 240
ctctacaccc gtcgaggctc cgcttcgaaa gtatacaata tatatatata tatatatata 300
tatatatata tatatcaaaa cgctcagaat gagaccctga gcgtgggtca caggttgggt 360
ttgctaaaat ttaatttgca tgcaaaacga taatcttttag actaattaat tgaggattaa 420
tctataactg gccagttatg gattactctt cgctattagt ctacncgcga tctgtcccaa 480
tgtcan 486

<210> 2471
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 2471

agcttgacacc tcttcactct cctcaggcat ttcagcctct tccncgctca gactctatag 60
ctttggggagc caagttattc cttacgttct cgacttcaac catttgtgat agccgcctat 120
gacaccatgg ctacttcccc taagctcttt atcttttctt tctctttat tcaatgcctt 180
acggatcctc tgaagtgtct gtgcattagc ttcattgaaa cctcacgcga tgaaagatgc 240
aatggtctcc tctgatggcg cacctctcat agggtaacct agttgtctta tgggcaacag 300
gattataatt aatacaaccc atcatcccca tcaaagagac cattggaaat tcttcacatg 360
agcataacac tcatgcccct ccttctttca ccgtgggacc aactattgac gccctatcat 420
g 421

<210> 2472

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2472

ngetaacccg tggaagctcc taatatctcc cacacctttt ggtgtggggc attcttggat 60
ggccttgatt ttcttagggc ccacttggac tccatttcta ccaactacaa accctaagag 120
aactatatta tctacacaaa aggtacctga aagaacctgc ctgagatgac ctaagtgatc 180
atctagactc ctactatata ccacaatatc atcaaaataa ataactacaa atctaccaat 240
gaaatccctt aagacatgat gcataagcct catanagggtg cttgggtgcat tactgtgccc 300
aanaggcatc actagtcatt catacaaacc aaacttggtc ttgaaagcgg gtttccactc 360
atc 363

<210> 2473

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2473

agcttcatga tgatgaacca agcaattntg atgatgccaa aagcccaagt gatttattca 60
agattgattc aagacttcaa gatcaagcat caagaatcca atccaagaat caagattcaa 120

gagaagaaat caagaagcaa caagtcaaga ctgcatatag gataagtatt aaaagaattn 180
 ttcaaaaacc aaataacaca gttttgttnt ataaaagaat tttctcaaat tttctaagtt 240
 accagagtga ttactctctg gtaatcgatt accagttggc agtaatcgat taccagtggc 300
 cagattgggt ttcaaaatgt tttcaaatga tttgtaacgt tccacaatga ttttcanata 360
 gtgtaatcaa ttacactata ttagtaatcg attacaagtg aatctga 407

<210> 2474
 <211> 551
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2474

tgacattgga accctgttag taccgtcgca tatacngaca cttcgaatac tcaagcttgt 60
 agactaagtg ctcaccaaca ctagataaga atccctcagg ttgtttcatg taaacctctt 120
 cttctagatc accattcagg aacaccattt tcacatccat ttgatgcaac tcaagatcaa 180
 aatgagctac taatgccaaa attactcgaa gagagtctct cttagatata ggggaaaggt 240
 ctctctgtaa ttgattcctt ctcttttagt gaatccttta gcaacaagtt ttgccttatg 300
 tctctcaatg ttgccttcta agtctttctt tgttttgaag acccatctac atccgatggc 360
 ttttacacca acaggcaact caacgagatc ccaaacttgg ttagatgcca tagaatccat 420
 ctcacccctc atagcattat accacaaatt tgattcctta gaactcatgg cttgtgaaaa 480
 catctcagga tcatnttcgg ctccaatggt gtagttggat tcttgtangt acactacata 540
 atcactacga n 551

<210> 2475
 <211> 330
 <212> DNA
 <213> Glycine max
 <400> 2475

gacatgctat tactatatat tgcacttctt atctaaccctt ggaaaggctt caciaagaga 60
 aagccactat tacaaatatg tttatttctg atgaatggat cctaaaccag ttatctaagg 120
 agcctaaggg gaaagaagtt gctaaggtag tgctcatgcc ttctttttgg aatagtgtgg 180
 ctcaccctct tatagacatg gctccacttg tcaaagtgat tcttcttgtg gatggtgaaa 240

ggaaaccagc catgggctat atttatgaag caatggacaa ggaataagaa acaattatca 300
 agtgtttcaa cgacaatgaa agccagtaca 330

<210> 2476
 <211> 483
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2476

ntagaggttt ctaaagtca cattatcatt tgtattttca tgttgctatg tcagggttgg 60
 gtgtaaagtt tctcactctt atttcattga ttttgccggc ttaaattgat gctttggttt 120
 tattgcccta cacattaaat ttcataattt tttctctctc ctctttgcaa tttttcttta 180
 actaaagctc tatctcattg aattttatta tcttttgccc tcattntctt tatttgaacc 240
 tcatttcacg gtcttttgct tcatcttctc gatatttttt atctgaacct ccatttcatt 300
 tatctaacia aaaataactt attttggttc tttatgcctc ctctctcagt aagttttttt 360
 aatctaaatc tgcacccat taattatctt acctatattt gttttgttgt gcaaataac 420
 atctaaattt agaaaaaatg attcctaagt agtgaatgaa tttgagcaat caatcttctc 480
 tct 483

<210> 2477
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2477

agcttcttaa aatataagat atgagatact ttgtttataa agataaagag atattaaatt 60
 attttaaata taatatttca ttttttcttt gaaaaactaa tcaaattccat atctctttaa 120
 cattatacat aaaaacatct acttgaggca aggtacacaa acataaacta aaaaaatagt 180
 tcaagtctaa ttntagattt agaaaagaaa aagatgattt gctctttctg gttttactca 240
 tcaaagagtt gataggtagt ctcaagttaa atacacaaag ttttcacacg gatacatctt 300
 cgtccattca cttaaaatgt tgggtgcact cgtaataatg ttgagtgac ctaacatcac 360
 ccttttcttt atc 373

<210> 2478
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2478

ttcaaaacat gtttgcttct ggtgatcgat tatagcctct gataattgat taccagagag 60
 aaatatatat tttccaaaga tgtacaacca cttaaaaaac tttataagag atttgaaaat 120
 ttaagtcttt taaggccaaa ccattgcaat tttttaagag attcttttaa caaataatgg 180
 actattgtga atcgcttcta ttaatctctt aatcttgact tgaatcaact atgaatagct 240
 tcaatctttt ggcatcatca aaatcttcat acagcatatg cattcacatc tacaagtgag 300
 tttccgttct ttagattnt acataaaaaa attggttttg ggtttgggcc ttttaattatc 360
 tatttgtctt ctggagtgag tttggaaata atggaattac tagagacaaa atctcaattg 420
 gattgattgg aaatggatgt aactc 445

<210> 2479
 <211> 233
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2479

agcttagatt ttttagtcaa actgttggtga gaacaaaaat agctaatatg atgacaaaana 60
 attgttcatt attaaaatca gtcccaccaa ctctcatgtg aatgtctcag aacaatgatg 120
 agagattatt accgattaat attatatact tataagaatc aatagaacaa aagaatatgt 180
 ataaagcaat tgcaaaggca tataaaactc aagcacttac aaaaaagtcc atg 233

<210> 2480
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2480

taaggaatct ccgganattg tattaattgt ttgtgttct gataggatta acatgataaa 60

tagttatatt gcgatcatga aattatgtat aagtgataaa ttaaataatgt gatgaattgt 120
 gggataacat gttgctttga aattataata ttgttattga gattgagtat aagtgcacaaa 180
 ttaanaatgc attaatttgt gagatacacg taaacatgtg atggtgaatt gtgatattat 240
 gagatgtaaa attgtgaaca tgaaatttag ttgtacataa atgtgtgggt aataactaat 300
 ggtgaaatac tcgtgttgtg agttgtgaat tatacaataa t 341

<210> 2481
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2481

agctntgngc tgctcaattg ctccagggtg ctgcatggaa aggcaaaggt ctgtatgggtg 60
 gtcagcagag gaacacaaac cgcagaccct tgcgacaggt acagattttt ggttcaaggc 120
 cagttgggtt accaagttaa ccaatgcac cagttttcct tcaagcttct tagtttcaga 180
 tgatgcagct gagttttag ctacctcatg cactcctcta atgactatag cataatttct 240
 ggcgctaaac tgctgagagt tggaagccat cttctcaatt gaatttctgg cttcaacagg 300
 agtcatgtct ccaagggctc caccactggc agcatctatc atacttctct ccatattact 360
 g 361

<210> 2482
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2482

tcctcggggc cattcctgca naggcaaaca ttgggaaagt tagttttacc agtgggacgt 60
 tactcttaaa gcacaaatgg catataacct cctcccataa atacaaacat caatgtaaatt 120
 ttagagtaag cttatgcgca tatttcctta caaatgttct cttgcacaag acatttctatt 180
 aaccgaaaaa atgcacccat atacaatcaa ggcagctccg ttacctagat tatttacacg 240
 tatttccaag gtgtatttgt tacttacatc acacacatct ccttggctaa attcacatac 300
 atgcataccc aaagcatttt ggggtaccaa aaattgcaca tgtacacctc ttgggtatttc 360

taataacctat acatacacaa actctatgat gaatcttgac tatctacaca ataaagtgct 420
acatttcattg ctc 433

<210> 2483
<211> 433
<212> DNA
<213> Glycine max

<400> 2483

agctcgtagt atgagggagg actttatgat ggttcgcgcat ccacctactt ttttgagtag 60
tttcctttta gcagatgctt caggagttgt aactccgagt ttgggttcatt tgtaattttg 120
ttgcttcagg ttgttaagcc ccttatatta ccaaaaaaaaa gaaatatcat agtatacaat 180
attatacaaa ttctcttttt tctttattct ttcctgtat tccaaaacac aaaaatttct 240
catatttgag ttgaaggagc actctgcctt agaggagtac tctacatttg agccaaagga 300
gcactttgct tatttataac taagtgttcc tttatatgct tcactaacta tctataaata 360
aagttaacat ttgggtcaagg gcattgcatt ggagattcta catctactag tgataagggc 420
ctgaaacatg taa 433

<210> 2484
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2484

tctcggtca tgctngaac gcctctagtt caacacccgt gcagtctaag gcacccaccc 60
agaggggaagc tccccaagtt ccaactccga acacggctcg accggccggt aattccaaca 120
cgacaaggaa ctccctccg aggcattgc cggaattcac cccgctcca atgacgtacg 180
aagatcttct accatccctc atcgccaatc atttggtgtt ggtaactccc ggaaggggtc 240
tcgaaccccc ttcccggaag tggtatgacc ctaacgcaac ttgcaagtac catgggggtg 300
tcccggggca ttccgtcgag aaatgcttgg cccttaaata caaggtccaa catttaatgg 360
atgtcggatg gctgactttc caagaagatc ggctcaatgt gagaaccaac ccgctcgcca 420
atcatnggag ggggagcggg aat 443

<210> 2485
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2485

tcaatcattt ccaaatatgc atgtgaatta ggacgcatca acaagaatca agccaaggct 60
 attgtgcaag caatcaatgg ggcaaaacac accaaatgat tatgatgatg gatgggtcan 120
 attctcacia aggtaaactc atcactttca aattgagctt tcaaaactat catgacatgt 180
 agaggagaat caaggatttc aagtcacaaa atgtcaaaaa cttttattcc aaaacaatta 240
 cccattttctt gaacatatcc tataattcaa agaanaacat gcaaagttgt acatgcacac 300
 aaaattgacc caaaatatta aactaacaat ccgaagaaaa ctacaacatt aacanattaa 360
 caaaaccaac aaaactagca aaccaaagaa cactcccccc ccccccccat acttaaacia 420
 cac 423

<210> 2486
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2486

cgtgatntat catgagttga ccaagtgtgt atgtcagatg agatagaaca agaaagtatg 60
 ctcacaatta gaaatgttag tcagtagaca ggttgattgt gaatgaaaag cttgatcata 120
 aattggtgag agtgtgatct taaattgtga gtgaacgact agcatagggg aataattttt 180
 gcatcaatct ctaaaattta tcacatttgg tgggggtgcc ataagcgttg agaaaaattg 240
 aacaaaacac ttgactggct attttgctaa atgaatgtta aatacaaaca tgcattgtgat 300
 ctcatcttat catcttcaa agttttgcaa aaattgagag tcgtttgtgt cgcaacctac 360
 cctatgacgg gcgtgcgggt ganaagacia aggagcgttc tccanaaagg aaaacacacg 420
 ggagtcaccc gcaacat 437

<210> 2487
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2487

agcttctcat ggaagtttct caagaaaact tctcaaggaa gtttctcaag gaagctacct 60
 aggctataaa tagaagcatg tgtaacactt gttgtaactt tgatgaatga gagtcttggtg 120
 agacacaact caaagttcaa cttttctccc ctttttcctc cttcaatttc gtgctccacc 180
 ctctctcttt ctctctctct ttcttttctt ccattgaagc atcctctcca agcttcttat 240
 ccaaggcaca ttcttggtgg tgaagctcct tcttccatgg cttattccct agtggatggc 300
 gcctcctctc acctcttctc ctttgtcttc tgctgcatct ccattggtgga aaataaccat 360
 tgaaggacct cattgatgct canagatcnc agcctcacag aagctncaca nagcaagctt 420
 cattangtgg cttagccagg agtc 444

<210> 2488
 <211> 490
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2488

ccgatgatca cgatcaacct acttaggaca aatntataat gctttgaatn tattgggggtg 60
 gtgtaataat gaaataatgt aaaactgaaa tctcaccaat taaagtttat aacataaaca 120
 aactttaaga ctaatttggtt tcgaaagttt tattatttat tgctcccttc aactttttac 180
 agttttacta ttgtacaact caaattaatg gcgaaaagga aacaaacctt ttgcttgta 240
 tttccatttg tgtgaaagtt aatttgattt ataatttcac tattgtttca aaacttaatt 300
 cactgttctt acccaatcag aagtaaacac acacaggaac ataagttgca taaccctttt 360
 gcttgagaaa ggaaaaaata taaattttcca tctacaaaac atacctaana cacaaaactca 420
 ctttccccat caccctaattg tttggtacaa caattatagc atgcaattat ntaaaaaataa 480
 ataacatgat 490

<210> 2489
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 2489

agcttatgtc tccacaagac cttccatcat cttcaaaagc ttcattacta aatgaaagta 60
aagttgattc ccatcttgtg agcatgaaag gtctttctca tctacagaag tttcctctgg 120
ttaagtggaa aaggtttcat tctctaccag agcttccacc attcttggaa gaattgtcac 180
taagtgaaag caatattgag tgcataccta anagcatata atatctttct catctgagaa 240
aactagccat aaaaaagtc acagggcttc gatatttacc agagcttcca ccatatttga 300
aagatttggt tgtacgtgga tgcgatattg aaagcttgcc aataagcatc aaagatcttg 360
gtcatttgcg aaagatcacc ttaattgagt gcaagaagct ccaggttcta ccagagctcc 420
caccatgtc tgcaatcatt t 441

<210> 2490

<211> 422

<212> DNA

<213> Glycine max

<400> 2490

ctgacttgag tcatcaagag attataaata tgtggccatg gcatgagttt caatcgtcaa 60
tcatcaatca tctttgaatc atctatcttt caatctttac aacatcatct ctcaacatct 120
ttcaatatct ttctacagaa ttttctgatt catttctctt catctttcta aaagtttttt 180
atcaacactt tctcttccaa gaaaaggctt ttattcaaaa acttgtgtta ttcattcttt 240
tcattctctt ctccctttgc caaaagaacg aaggactaat cgcttgaatt cttttgtgtc 300
tctcttctcc cttacaaaag attcaaagga ctaaccgcct gagaattctt ttgattattc 360
ccttcccctt aagcaaaaga tttcaaagga ctaaccgcct gagatatctt ttgtttcccc 420
tt 422

<210> 2491

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2491

agcttcatgg aacatttatg atactgatgt aaattcaggt cttcatggtt ntacaaaaat 60
catagttggt gtttaggcgg ttatcgttat caaaattcta gaatgctttg taaagatggt 120

catcaagtcc aagtctgtgc ctatgcattg tagtcgaaat gaattcaaga tagtcaattg 180
 acccatttcc gtcaacatca gcctgaggaa aaaatataca tgtcttgcaa attgaaacaa 240
 ttaggaacaa agcanaaatg catgacaaca aaaaatagta taaagatata ggaaatatca 300
 tagtttaatc acaacattaa aaaaggctnt agctagagcc tacataataa taattataat 360
 aataataata ataacaacga agcanacatg cattacaaca naacaaaatt aagaaataat 420
 aaatatcagt gttaactcct attgtcaca cat 453

<210> 2492
 <211> 374
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2492

ntcagagcgc agctgcgagc cctccaatct ccaacacaga gcgcgaccct ggaacctagc 60
 tgtgacccgc agcacacagc aaccagcaat gacgaccac ggcgtgaacg gcggcaacga 120
 gcacgacaac gacgaccac ggcgcgaacg tcgacgacga cccacacgca gaacatcgcg 180
 atccaactct agtgggcatc ttgaagcttt attatTTTTT tttgggtttg gcttttctgt 240
 ttgacacca ttttttcct ttttctattt gacaccctct tttactttc gatagtccca 300
 ttnttattnt tttttctatt tgacaccaca attatTTTTT tcagtcctct tttatagtgg 360
 aaccatcatc tgat 374

<210> 2493
 <211> 309
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2493

agctntataa gcgcgggtct gggagacaaa ggtcaagtgg tcgcatatg cgaggatgat 60
 gttccgagta cattggattt ggtacgacca tgccctctg atttccagct gggaaattgg 120
 cgagtggagg aacgccccg catttacgca acgagcataa tgtaaaccct tacggtttaa 180
 aagctctata gttaggccta ggctttagaa gtcttccttt tgttaagagc tctgtgtcct 240
 ttgctattga acttataata caaggatctt tctttatctg ttcctacgtg tctaccatt 300

ctcattcat

309

<210> 2494
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2494

tgagggttta gttcagtggt aaggaaccct ctttttttcc cttctataaa gactaatatg 60
acaataagag ggttgaattg taattttttac aaattctcaa aactttttct aaacacaaca 120
atgttacgtc tgaagatgaa tatgtaagaa aacatatatc atattttcgc agagcaattt 180
agacaatgac ttcggatctt gtaagacaaa caatgatttt caaatacaaa aatcaaattc 240
gaaccataag tcaatttata acacataaga gaaaataaac aagataagac acatggaatt 300
atattggttc atctaaacca ctgagactac attcagttct tgacaaacca ctaagtacta 360
ctaacttcaa ctacttataa gtatttatga ctctcactnt tagttcctta actcaagctc 420
tataccaaac ttgttccaat caatattttt tttttat 457

<210> 2495
<211> 279
<212> DNA
<213> Glycine max

<400> 2495

agcttccttt caacaaagag aagagaataa tgaaggattg aagaaatata agtagtgggg 60
atgttttctc cacctctaga acctcacaat cactcataga ctcatctcat gctcttagga 120
tggattcctc ttcactctca gttctctacc agtcttcgca taacaaacgc tctcaaaact 180
ctctagaact tggacctttc tctctctaga aatctctaaa catgcaaaag cttcgagaac 240
tgcccaaact cccctccat ttctgatttc aggettaaa 279

<210> 2496
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2496

ntgccgattt agtgggtgaaa gtgagttatc aataacagga gtcatttgac ttaatatgtc 60
aattgaaaat cttttaaata tttctcgtcc ttgaaaattc attntcgaga acctgcacag 120
tttcttttat tgctacaagg tcatgacaaa agacaacaat agatacctca gagccctaca 180
ttggggcaat gaaaggcacc atgcaagagc cttaagttaa cctaggggta gataagaagt 240
tctcaccgga aagggtcgaac acccgaaagg gtggcctagg caaaaattag ggtaataaaa 300
aaataaaaaa aggagaaaac aatcatgagc gtgggtatca gggattggtc ttgaaatcca 360
aacttgcaaa ggatccaagt caagatttga aatgacacat 400

<210> 2497
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2497

agcttacatc atatgttcca agagaatatc atatgagaca tatagaagaa gagagaataa 60
gaagagctaa tgagagagat gaaagggtat gttggaggac caaacaaaag aggaaggta 120
tctctactag tgcaaaactc actacatcta ttcacctac tagaagtatg gaacttgaat 180
gtctcatgtg ttcaagaaaaa gggcatatga cctcccaatg cccaagatgg aagacattga 240
caaagagctt aaaagaaaaa agatgaaaga gaatgagtta agaanaaatg agttgagga 300
aaaagaaaat gaaatgagag aaaaagatat tcaagaaaaa gaaatgaaag aaaaagagat 360
tagagaaaaga gaaataattt aaatagacag tgataaagaa tgagcacagg atgaagagaa 420
gtatgactac tctt 434

<210> 2498
<211> 274
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2498

tcctgatata ggagagctaa agcctcagat ggttcttntc atggcgact tgatgtagaa 60
catacatatt tatctaataa tgatntgggt gtcactgagc tatcaagact taattctagt 120
gtgccgttac catgatcacg gaactacatg cttagttagg gtgactcaac attcggaat 180

ggggtgtacc ttacaacctg ataggacagg gctggactat cgcattggca tgatacatca 240
 tggcacgata acctatgttt tgttatgtta tgtc 274

<210> 2499
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 2499

tgagcatgca agctcttcaa acaacctgct aagcttattg caatactcca aggcattata 60
 tgcggtgggc aaatgttgcc cgaagagtat atcgtgaata tgaatcacta tttcaagatg 120
 ctgcatctt gacctgaact ttatcttctc ttcttttcc gttcaccgct acatcatcat 180
 tggcgatata atgctatgca ctcttactgt tgaaaggcct gttatacaaa aaaatctggc 240
 catgtactgc atgatgcgag ttatgcatct cttccaaact aaagatatat tgcaggatta 300
 catgaacaat ttgattaaa agatgtatta tcttaacgac aattgactta tattatgtta 360
 atcaagtcct actttattta caatatataa cagcattaac atgaattaa 409

<210> 2500
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2500

tgctctcggg gacgaanaca atagaataag cctcttcgag cttttcacag gcgtcaacga 60
 ttccaagaat gaagggtctg tgtttgaggg tggcgatgag gtggaggaca acctcgggtg 120
 cataggtggg gttgaagatg gagccgttgt cttcgagggt ggttcggagg gtcttatagt 180
 tgacgaggtt gccgttgtgg gccacgccga ctgagccgaa gcggttaaccg gcgacaaagg 240
 gctggacgtt tttgagcatg gataggacgg cgggtggagta tcggacgtgg ccgatggaga 300
 tgctgccggg gagctggctg agttttgatt ggttgaagac ttcggagacg aggccaacgc 360
 cggtgatgga ttggaggacg ttgtt 385

<210> 2501
 <211> 560
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2501

tacacttcta ntgcctctgg cncgcttttn tttaacanna acanaagggg acgtgtttga 60
aactagtga gcatgtaaca ctccaactnn tatccaagac catcttgggg gagcgcttct 120
catggcgatc ttatgaaggt gcttccactc atccctggga ggacagtaca tccacatggt 180
ggaaaatcaa catagaatga cctgatatga agctcacaga tccatcctcc atcaaagctc 240
cacacgcaag ctaccatcac aaatatatga cgactactaa tgagtgc aaa cgaatactaa 300
tggtgtggtta agactacgat ccgctacaca tgagactaaa cgcattctgg agggacgaac 360
gtatatgtgt aggatacaga gattgggttat ggagctcacc tcttctcatt gcgactgatt 420
atgacaggcg acttgcttcg ctogtagaaa ccgtgaggca agaactcgag gggacgatcg 480
tatcagagca ccatcgctgg gcctcgccct gaaccagtca gtactttcca aaccatttcg 540
gtgtcaaaca gaggcaatcg 560

<210> 2502

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2502

atctttacta cctagaggtc ttactaagct tatttatattc agatcgagtt gcgcttgatg 60
ttatcatgag gtcatagaag ttaaacaatt acatatcttt atatctccaa ctcaagtatt 120
tgaacatgca agttttgaag ttttgagcat attttggacc ttttcctttt cttcatgaag 180
aacttgga aa atctgagctt tgtctacaca tgtgaagact accggtgaat ttgatggtgt 240
aggtgaaaat aaaattgaac tggatcaatgt gaggaatttt aggagatctt tgatgcttaa 300
ccttccttta tatattaacg tgacaaaatt ctacatttat tttatgggta acacttctcc 360
acccttgtg ctgaan 376

<210> 2503

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 2503

ngtgtcaatc ccacatgggt ggagcattct tgctaaacag ggtgatcctg actagtctcc 60
ctatgattnt acttagtagg agtgatgagg acatgacaag gactaatggc aaggaacctt 120
tagaaggact tggaggacct atgtcaaggg ctagaacaaa gaagaccaag gaagctcttc 180
aacaagtgtt aaccatgcta tctgaatata ggcccaagat acaagtggat aagattcaga 240
ttgtcaattg taccatgttc caagaagagt agaggggtgcc acctttgttg agtggctnta 300
ttagtatttt gctagttaga ataaaggctc anacttgtgt taaagtgact gtcaattata 360
tttggtttg caccacctat nggacttgtt taatntgaag aaattaagat ttaat 415

<210> 2504
<211> 296
<212> DNA
<213> Glycine max

<400> 2504

agcttgagga gcttgcttta gcccatatag agctttattg agtctaaaaa cacgatgtgg 60
aagagtgtta ctctcaaacc ctgcgggggtg ctctacatag actctctctt gcattagtcc 120
attgaggaat tcacttttac atccatttga agagtctcat atgtatgagc agcaatgacc 180
tatagtgtat gcctccggtg acaacaagag tgaagttatg tatatcatac ctctttata 240
aaacctttgg aacaaccttg cctgttgtac atactaactt cctataaagc tatgtc 296

<210> 2505
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2505

gttgntgcgg aggtgcccaa accataactc tgatgacact gcatagctgt gtatcttcta 60
tagtggtgtg aaacctcaga ccaagatgat ccttgatacc tcagctggag gcactatgat 120
gtccaagata ctgaaggaag ctattgtaat tattgactcc atatcatgca atgattatca 180
aagtcatcat ggaacaacct tcacttatag aacatgtatc atggagctgg acactccaag 240
tgtaattcta actcataaca cactcttggg gcaacaaata gaggccttaa gcaaacagat 300

aggccaactt cctcaataat atcacccaag tggaccacag aatacacaca caactcatcg 360
agttcaaa 368

<210> 2506
<211> 396
<212> DNA
<213> Glycine max

<400> 2506

atgcaagcct ttgtacaaag aagaagaaga agttcttaga gattcaaggc ttgtaaagga 60
ttgattggaa aagtaaagaa tgaaggaatg aattaattga aaatgcaaaa catagcctta 120
cttttataga ctcttcatgt ctgggtcaaga agactattag aagagttata acttttagaa 180
aaacttaaaa ccaatttgaa taagtcaaaa acctttttaa gagttacata gtttgattta 240
ttcagaaaca aacactggta atcgattacc aaattagtgt tatcgattac acatagcttt 300
tgtgtgaaag gatgtgacgt cttacatttg aatttgaatt tcaatgttca aatgcactgg 360
tcattgatta cctaaacatt gtaatcgact acagct 396

<210> 2507
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at' all n locations
<400> 2507

gactctatac atactcagct ctttgatggt gatctaggct tcagtagttg ctcttgaatc 60
anaatctaag aaagatccta gagattcatt gaggtgcatt cttgcatttc taccttcaca 120
agaaacttgg aaccctgnga aggttgatta ggtaagggaa gctctaaatt ttattttgat 180
tgtgtgacta atgcttggaa tgatgatggt tttgggtgtt attgatattt ataagtttgg 240
gtgagtcttt gcagaagggt gggatgagta ggtataccat tattggccat gtagtttgca 300
attcgcaact tcattttcat ttcggtccaa ccgaagtnt gttntgactg accaaagcat 360
gacaaagtgg agcattaagc tccatagagg ttccagccca acaagagctt ngttcggcta 420
tgcattgagt agatagagt gagctttaag ct 452

<210> 2508
<211> 470

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2508

agctataggg tagaatttag atccatggac taagtatgag tctgcttatac tttgtacata 60
ttaaattgag attntattat ttttttgggc cttatattca gggattcaca gtgtagggag 120
ggatccttag taatatagga tttttcagcc tttgtatttt agggcaccta gactagtttt 180
tgtattatgg gtagttttat aatttcacat gcattaagtg tattatttga tgtgtgtgtt 240
gngagagaaa ttaattgaa ttgcaagaag ctcaatccaa ttaaatttta gaccagccta 300
agggggaagt gagcatttgt ttgttacacc tcattatcac atcatatagt cacactttgt 360
gtttgtcctt catgctttac atgtctcatg gcacctaagc acacttagtg gagaatcttg 420
gatttgatct tagattagtg cgctgaatca tagctgaact cactaatcat 470

<210> 2509
<211> 134
<212> DNA
<213> Glycine max

<400> 2509

aaatgttgcc ttattttgtt ctgaatttgt tatgttggtt tggctctgtgc gttggtggct 60
tggttggtga tgggtgtgtt cgatgggtgtt ttgggtcgcg ggtggctcgt ggcttggttg 120
gtgatggtga tctt 134

<210> 2510
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2510

agcttcgggc tgctcaattg ctccaggttg ctgcatggaa gggcaaaggt ctgtatgatg 60
gtcagcatag gagcacaaac cacagaccct tgcaacaggt acagatttct ggtttaaggc 120
tagctgggtt accaagttaa ccaatgcac cagtttgctt tcaagcttct tagtttcaga 180
tgatgcagct gagttttag ctacctcatg cactcctcta atgactataa catcatttct 240
ggcgctaaac tgctgggagt tggaagccat cttctcaatt aaatttctgg cttcagcagg 300

agtcattgtct ccaagggctc caccactggc agcatctatc atacttctct ccatattact 360
gagtccttca taanaatatt ggagaagcaa ctgctctgaa atctgatggt gagggaaact 420
gacacatagt tttttaaatc tctcccagta ttcatacagg a 461

<210> 2511
<211> 455
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2511

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aaattttcat gcaagtggac cttcttctag taattctgac ttaccgcagc cttttatccc 120
tcttcaattc ccacctagag caattccaaa caaaaaaat ggaagaagca gaaaaggaga 180
tcttgagac cttcagaaaa gtagagggtga acatacctct gctagatgcc atcaagcaga 240
ttccaagata tgccaagttt ctaaaggagc tgtgcaccca caaaaggaag ctcanaggca 300
atgaaaggat tagcatgggc agaaatgtgt cagcattgat aggtaaattt gttcctcaca 360
ttctgagaa atgtaaggac ccaggtactt tntgtatacc ttgcattatt gngaacaata 420
aatttgagaa tgacatgcta gatctaggag catca 455

<210> 2512
<211> 455
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 2512

agctntanac caagctcgga tggatctcat gctatgattt atcgatttgt tgattcaaag 60
tcagtctcat accattgggtg gttcgaactc aaatcgtggt actccagggt cgtctaacgg 120
cattccgggtt actttgatta tgacagtttc tgcaattcga gacatttctt tgggttttcc 180
gcatntngat ggcaatacac cggctcttga gtggatcttc aaagcagaga agttcttcaa 240
ttatcataac actccagatc tggatcgagt tgatattgct tctattcatt ntgagaagga 300
tgtgattcct tagtttcaga tgttgcaacg gatgcaagtt gtgagcattt gggctgagtt 360
aacacgtgct ntggaaacac naattgggtcc ttcactgttc gattgccgat ggcnaattat 420

tcnacttcaa cattttgata gttgctatat atttg

455

<210> 2513
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2513

tatccccctaa tgcacctatt ccattcctcc catggtcac atcaccataa acagctataa 60
cctctctcca gccaaagtag ttaacaaagt ctgctattgc agtcatttca taaatgtcac 120
taaaagcagt tctaataaag aatgggaatt gaagtgaaga aagagtaggg tcagtggctg 180
taaatgatag tagaggaact tggagctcgt tcgctatatg agatatgaca tgagctgttg 240
tagacgtctg gngaccgatt atagccacag tttgtgttgc catgagctgc aaggctatta 300
cacacaattt atgtaaacca agagtaataa tctgccaaac tntgaagtaa cttgtctaata 360
aganaaaaag atgcttttaa agttttaaca cataaaaaag atgggaatat tgtgaaggac 420
gtaccctctg caatgctca 439

<210> 2514
<211> 382
<212> DNA
<213> Glycine max

<400> 2514

gcttcgctaa gtgagacacc agctgctagc cttcacaagt ttcactttt tttacctaaa 60
attgaagttg aaacacatta tattcacaat gttgggcatt tctactgaac aaaattaaac 120
taaacctatg tacaaacctt caaaaagaac cataaattgt ggaaaagaca aacattttat 180
aaaacttttc tataaaaaag ttagttgtaa atgagactaa cattgggtcc gcctgcctg 240
ccgaggatta tgatgagagg agaccgcatg catgctgatg gacctctaac aaggcacttg 300
ctgttttcac atatccgcaa gtgtctagac agactaacc cttgatgtgg gtgccgaatt 360
ctgtatggtg accaccattc at 382

<210> 2515
<211> 415
<212> DNA

<213> Glycine max

<400> 2515

tcttatccaa gacacattct tgggtggtgaa gtccttctt ccatggctta ttttctagt 60
gatggtgcct cccctctcct cttctcattt tccttccgtt gcctctccat ggtggaaaat 120
caccattgaa ggacctcatt gaagctcaaa gatccagcct ccatagaagc tccacaagca 180
agcttccatc acaaatattg aatgactact aatgagtggg aatgactatt aatgggtggg 240
aatgactact aattggtggg aatgactact aaatgcattc ttgatggtag aatgtctata 300
tatagcatat gtgtttgggt cttgagctca catctttcat tttcgtctga tattgacatg 360
tgttttgttt tgggtggtgt aacctcacat gtttgatact tgagtcttac atttg 415

<210> 2516

<211> 292

<212> DNA

<213> Glycine max

<400> 2516

agcttcttat ccaaggcaca ttcttggtgg caaagctcct tcttccgtgg cttattccct 60
agtggatagc acctctctc acctctctc ctttgtcttc cgctgcatct ccatgggtgga 120
aaatcaccat tgaaggacct cattgaagct caaaggcca gctccataa aagctccaca 180
agcaagcttc catcacattt actcttctc caacttccaa aggtactttt gtccaccata 240
atgacttttt ttctgtcttc ttttctggag gtgggacct gtcattgtct ac 292

<210> 2517

<211> 460

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2517

tgtgtaacac ttgtngtaac tntgatgaat gagagtcttg tgagacacaa ctcanagtcc 60
aacttctctc cctttttctt ccttcaattt cgtgctcccc cctctctctt tctctccctc 120
tttcttttcc tccattgaag catcctctcc aagcttctta tccaaggctc atcttggtgg 180
tgaagcttct tcttgcatgg cttattccca ggggatggcg ccgctctta cctcttctcc 240
tttgtcttcc actgcatctc catggtggaa aatcaccatt aaaggacctc attgaagctc 300

acagatccag cctccataga agctccacaa gcaagctttc atcacatgtg caattgatag 360
 aaatataatt tacaatggcc taactaatga gattaccctc acccatcctt gngcactaaa 420
 ttgtgttgca tcctcaaaca ccttcatagg tcaaggatag 460

<210> 2518
 <211> 291
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2518

agcttccatg tgcaggttac gccatattct cttatcttca ggtaacctaa tgctgttgg 60
 tttgagtagg tcaactgggtg tttcattntt gaatcagctt cctagtgatc caagtatgac 120
 aacagacaac atatctggca agtatgatgt gaagaagaaa gaaaatatac caattagaat 180
 tgcaggtgat attgatgggtg gaatgcttga tggccacctt aatgcccctg gtgggtgttg 240
 gcgcacatta ggagcttcaa aagttgtaaa accttcaaat tcacctaaca t 291

<210> 2519
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2519

ngtagaatgt gaaatanata tagggagtct ctagggcttg aggaggagac gacagatttg 60
 ggatatgaca aatattacaa ggacctgtaa ctcanacaat gggagaaaag atttcactgg 120
 tttcctatatt gttgcaccac ttccccataa cccatctgaa acaatatggg gtggcgtagc 180
 atgcaggcat accatgtacc tgtgcgtcgc ctcattccact gtcgtaattg aaaggaacat 240
 agttccattt ggattcaaat tcattttgat caatctatat gagaggagta gtactcaata 300
 atggcactta attaattgag ccaatgagag agtgtaattg aatatatatt tgtcacgaca 360
 cgtacgggct tgctagctcg ctgctttttg cttcggtgca actgatactt aattttgtaa 420
 agtttggtcg ctgtgtanga aatagtagca attgcaatct cataattaag taattag 477

<210> 2520
 <211> 354

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2520

 agcttatcaa tggcgttctt gaatntacat atggaacaac ctgaaccaag cattcatggc 60
 ttggattgca tcacatttat cactaccgct gccgataatt atcaactaac atgggcaatg 120
 tgacaccctt taccctcaaaa gatttatcta aataatagtt gtggaaaatg atataaaatg 180
 cacatgtgaa aataacaaat tttcaaaata tactccacaa tttttcataa aaaaaataa 240
 ttaaataggt ttttctatta taaaaacaat taatagaacc tgatttgagt tttgggacaa 300
 tgtanaanag ggagttcagc tggaattgat agtcattata ttcaatgcaa aaaa 354

<210> 2521
 <211> 493
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2521

 tccatgaatn tcttgggtacc agacctagca attgtacca agttgctcac catatctgaa 60
 aaaaaaaaca taacaaaaat gaattagaga ctaaccaggt aaacaaaaaa attggtccac 120
 aaatatctca ataaaagaac atctcaacct accagctttg gtcatgccaa taccattgtc 180
 aacaatggtt agcatattgt tagtcttgtc aggaataata tgaatgaaca actatggcta 240
 agtatcgagc ttgctcttgt ccgtcaaact ctcaaactca gtcttgtcca aagcctanaa 300
 ttttacatac aaccacataa ttaattaatc tttcaaaaca aatcaactca agaagaagac 360
 caatattaac acaaccacac atcacactaa aaaaattcag tggcagggtg caacatttca 420
 atcataattc atctcccaac gtaaccaatt cactcctaca aaataaatta gatgtcacta 480
 attcactatt cac 493

<210> 2522
 <211> 378
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2522

acaggtgaat gaccatttta tatgggataa tgatccaagt atgtgtgacc ttgaatgtga 60
 nttagaagaa gaataacaag aagaagaaga agaagaagaa tccgacaaaa gaaactagag 120
 atacagacct ccatctgttc tagctcaaag gataaatcta gatgaatgag catggggtcga 180
 aataagaaaa gatcaacatt agccgctcta gatctataaa aaagctctag agatcctcag 240
 agaagagggg gctttttcct cgacttaatc accaactgat gtatctctgg tttcttgtgc 300
 tcccactgat accactacac aatgcagaca tcttgatacc ctttcacttt ctcaacctat 360
 accttgcattg atggtctc 378

<210> 2523
 <211> 488
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2523

tccattgtca atctgtccgc aacagcatta cactctcaac gaatgtgacg aagagaaaat 60
 ccagcaaggc aattgagcca ttctaataat gttctgaacc gtggattaac aaggatagtg 120
 gactgctcaa aactttgtga ccaactccat tgtgggcctc tttcgaataa gcttaagctt 180
 agaactaaaa agtacttata ttagtatcat gctgggaaga ggaagagatc gaagaattgg 240
 tgtggtacaa acgataatta ttagtatttt tattttaagc ttaaataatt ttttgggtacc 300
 tacaaaataa gattatggtt ttggtattta gccttttttt aactttaata tctgaatttt 360
 tttattttta aaaaactacc tattgtgata atganttgac taccaaataca ataattnta 420
 aatggttttg acttaatgta acactcctcc ataagtcacc ttattagtta aagaagattt 480
 ctaacaac 488

<210> 2524
 <211> 329
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2524

tgaagatttg gaagaagaag gaaatattaa taatgaagat gcgntttta taaccaatga 60
 accggtgaaga agccttgta tattcgcttg gttggtgcaa accaaccggc gggcatcatg 120

cacagaataa tcaaatttcc aatcgtcaat cagtgcacct tcaagtggta caccttcgct 180
 tggcaatttg gtaaatacata gaatanggac tggatcaatga ccatcttaat tccataaacc 240
 tcagacatta gggatgccttc ttatgatttct aaagtgtgaat agaaggcttt tacaagatca 300
 taataaatag gtaatttaga gacatgaat 329

<210> 2525
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2525

ttcatagggtg anatacagtg cagccatttc ctttatagtc ctctcacgag gtggagggtg 60
 tgccatgttc tcagaatgtg caaaatcaca atgctcagaa tcagaatgct caaaattata 120
 atgctcaaga tcaagatgtt caaaatcacc aataacagaa tgcacagatt caccagttat 180
 ggaatgtctca gaatgatcaa aagggtataaa atgatgccta actaatctat gaaatgtcct 240
 atctatctca ggatcaaagg gttgtaagtc agatggattg cctctagtca tacactacat 300
 tcagcatgca cacaactagt tgcccttgta tgtaaataat agtgtagggt tgaactacag 360
 ctaccctcaa atgatatcca catgacttga aattctgtga gcaaccttat caaatgatga 420
 gaagat 426

<210> 2526
 <211> 394
 <212> DNA
 <213> Glycine max
 <400> 2526

cggacactat aataactcaag cttgtcaagg aagaaggacc tcctatgctt ttggagggct 60
 tcccacagtg ctatattatg agagagctct gcgagggcaa caccacagac aaacatgatt 120
 ggaatgcaag aatatatgac atagcaaata tataatctat tgccactttt cggttcggct 180
 aatgcattag atatctcatg attaaactag aacatatttt ctctctctct tgtcagaagc 240
 ggtcgcgaga gacagcatga aattatgaga actcataact tgtgagcaga tgacctttac 300
 gtacagtgtt gagcatatat tatgattttg atatcttgta tataattatt atagaatggg 360
 tgagcacact cttgtgaatc tcgcacatat aatc 394

<210> 2527
 <211> 352
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2527

 agcttctcaa ggaagctaca tgaagctgtc tcggtaaaaa cgctgcccag ccatcgtaa 60
 ccgttggaac ttctcaaaat ttgggctgga gctttacaga acacttgacac gacgttttcg 120
 tttccgagag cattagtcac ttgtgcattn tgagccttgt agtccaagta gctttggaaa 180
 aatgccatth cttctttctt cttcatccaa aaccatttcc aacgtgccaa gctatttctc 240
 catcaccacac agccaccagt agccaccaca naccgccatt gttctccatt gaaacccac 300
 accgagagga aaccttcacc aaagcgaatc tttaacttgc ctcatgggtg gt 352

<210> 2528
 <211> 345
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2528

 ngtgcttggt ntatttanat tcctaggatc atgaacaact aggtgtgtcc tactatgact 60
 tgagaaacac aggtgatcaa ataacaagca aagatttaaa aggtactagg ttgcctccta 120
 gttagcgttc tttaacgtct tgagtcggac gcgtgatgac ttgtcggta tggacctagt 180
 acctttgctt tcctttgggt ttggacttgg tcgcctgctg gtcgaccacg ggtcgtaggc 240
 aacgctccag cctttgtata tgagccgagg ggctctggag gtggcggcag tgcgtctatt 300
 gcccgctact ggccatcccc aggctaattg tgatgcaatc ctacc 345

<210> 2529
 <211> 203
 <212> DNA
 <213> Glycine max

 <400> 2529

 agtacttag agtggatatt tcgagactca cattattgat tacagataga gaataatatg 60
 cactacatag atcaagtac agtaactcgg acaactgtgc aaactgatgt gggatttcac 120

cagaaaaact agctacagaa aggcttagat atcttaactg tgaaagctca ccaatgctcg 180
atgggatttg agattgattg aag 203

<210> 2530
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2530

ctgtaaaact taatgctcga tctggtgtca taatgtggag gacctagatg ttgccagata 60
acaacaatag gagaggagaa tatgcaggag ctgctatttg nggaagcagc ccttccattg 120
atgttaaaag aaaccatgtc tatattggaa cagggaacct ctattctgcc ccattacaca 180
tacgtcagtg tcgagagaga caaaataatc gaactgaacc tactcaacca gatgagtgtg 240
ttgagccaga caaccactcc aattcgatat tagcccttga tttggattcg gggaagatca 300
gatggtaccg ccagtgtgga ggcttcgata tanttttctt agcatgtata aatgcttcag 360
ctcctaattg tccaccccgga ggtctttggc aagatgctga ttatggggag gcaccaatga 420
tgtngaccat atatataaat cg 442

<210> 2531
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2531

agctagtcac cgaggagacat canaggctag tattntaata aatctgggta tgataaatc 60
accaaattga tagagaagaa tctaaaatca tacatcttag ttaaataagg catgctaccc 120
cccaacatta ttgcattttg attccatctt tggacattca aattgttggt tatttttctt 180
gttatctttt cctttgcctt agtctaaatt tcgaacttac aattcggtat ctctttcttc 240
ttttgtttct cctcatttct taataattgg atttgcacat ctttaagtaca accagagtcc 300
ctttggattc aacagttgaa cttcaatttc aatctttact acttgtgatt aaattaggac 360
acttgtcaat ctattaacaa agttttggca ctg 393

<210> 2532
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2532

tagactatat tgtagaatct tgagccttag ttctcaatga ttaagtcggt cttatcatag 60
 agggagtctt tatgctttct ttcaatatcg agaatccatt ntgtaagtac aatgtttttc 120
 ctaatgatat gatcgaggct tcacaccagt aatgtggact tatcatttac taaaagaatt 180
 aggattccag acaaggagaa attaccacca tatacatctt gtgtaacacc caatttttgc 240
 gtaatataaa ttaaaaaaga ttctatttaa aaataaatag agtttttagga aaataatgag 300
 attttcgtaa ttaaataaat aagagaaaat aattttatta attaaaataa tgattttaag 360
 ggtaataaca taattatatg ttcttataaa ataaaatgaa tatttaattt attcattcga 420
 ttggggagtaa aatatagggt atctttatga aataatataa tanagaacaa tagagtatat 480
 aa 482

<210> 2533
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2533

agctcgctcg agtgatgact tcccctcttt gatgatagta tcgggttggtc aatccttctt 60
 ctttatgtac tgctatctct ttgatgtctt gggtttgatt ctcccatga aatcttttca 120
 atgttctctg cttgagaact taaatgtagt ccccttttag cttcatccca atagttggac 180
 tatggtcagg gccttcgagg tcttgtgcct tttcttcaac ataagacca gtgtgtcggt 240
 atttttgtat ttttttttca tatgaaatng acatgcaaga ttgggttggt ctccctgaac 300
 aacgtgtcca agaagttgct cgagtttgac ttgaacgtgt ttcactactt caaggactgt 360
 ttttaciaag tcttcgcaac tgacgtcatg gctgatgaat tgccactgat cttcaatcga 420
 gatgaggaaa cccacttct gttctactac aat 453

<210> 2534
 <211> 497

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2534

cgtagtgaga ttngactact aacaattcat tggtnnttct aggattcana agtttagatt 60
 ctaagagagc acaagtccta gactaatccc aatgatcttt tcttgttttg tacaaatagc 120
 cttcccacta ttcccttttc ttaagttggt ttcgaccttt ttgtaacagc acaacttatt 180
 ttctttttct tttttttaaa catacaactt atttgatggt tgtgctgatg cttaaccttt 240
 ttgttttcat tctaattgac ttttcacccc caaatttaga gtaaatttgc cttgaaccat 300
 atgctctcct agaatctaaa caaggtatta ggagataatc atttanagtt cagggttcaa 360
 ttcatgacaa atcaataagc tntatacaag ggagcaacag atacaaatat cattcaaggt 420
 aagctatttg gtcaaaaagag cttgtgtcta tacaattcat ggccttcac atgttctgag 480
 ttatacaaat cattcta 497

<210> 2535
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2535

ncaagcttct accttttctt tcctttctac cacatagatg gagttattcc acatacataa 60
 aaggccacca gcagcttgca cagatggaac aaaatcccaa tgaccagtgg agtctcccca 120
 aatggcctgg caaatacttt tattaaagtt ctccctcttg gtttcttgga ggcagacaag 180
 atccactntg tgctttacaa tgagccttct aacagcagcc cacttgactc ccttcncaa 240
 acctctagaa ttataggaga gaattatcat aattgctgag atntaattcc cttctctgct 300
 gccatcaa at catctttatt ctccatatcc agtagcagcc ctttaacctt gctatcttct 360
 tcctcataag acaagcccat ttccttcaag atgtcacatt gcagctgtat agggctctcg 420
 tataa 425

<210> 2536
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 2536

tcaatntgta gcctcanatc agccactacc attgtttctc ttgagacaga agacgaatta 60
gaaagttggt tttcttcttc aaccattga aaaaattgac agttatttgg gtctgtttgg 120
ggtaatgcac aagtatagaa taaccttcct gggttcctcc ttgttcttgt agttcgaata 180
gctgcatgtc ttccatggtg gcattgctga atgaaactac cagaaaatgc acaacaactg 240
ccacttgtag acatggagaa atcaagtga caagcagcag cgactaagcc tcaatagaag 300
aagaagaagc gactcagcgt gggaaaccag cagcttcgta aatcctaatt tatttgggga 360
agaagaagaa tcaaccttgc gtgagagaga atttatagat gcataacctca gtgccacatt 420
ggacagtcta cgtggcactg aattgccacc tatacacctc actaacgccg tcacctgaga 480
attaacgaca tggacta 497

<210> 2537
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2537

aaccacccga tatgtttag ctaagcancc tatatatata agtctttgat ggtttanaat 60
ggataggaaa ctgccacaaa taaaaatgtc gcatgtggac taatggaatg agtaatcggt 120
gaagaagaca aaatacatat gtaaaagttt atgcactggg ttcgagtgcg ttgggtaaac 180
tggttaacaag tacttttgtg tggtgaatat actttatgag aggataattc atgttctaac 240
attgtatgat atcattgata agattgtttg ccattgaga tattgttcga aaatcttatc 300
tttcaaaaca cataacatta agtatctttg gaaatgcggt ggccaacata agttattttc 360
aattatttta taactttatt caatctactc atctgttgtt tatcataaca gtatacaagt 420
gattattgcg 430

<210> 2538
<211> 258
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 2538

agcttcaaga gtatgattgt cgtggngact atagccatca taatttttca ttctttcaga 60
gagcttgtcc ttctgtgtga cgtgtcacga aggggtagaa taagaaacac aaaatagtac 120
ttccttcttc tcaacattgc tcatgtagnc tctactactt gtacccaaat gagtntgaaa 180
gaatatgttg atttgcttaa ccagccttat aacaatacac ttganttcaa atgatgagat 240
agtttgacaa ggagagag 258

<210> 2539

<211> 436

<212> DNA

<213> Glycine max

<400> 2539

gtaacctcta agatcatatc atccacaaag aagaggtggg aaacttaggc atctcctccc 60
ttcccaaagt agaaagggtt ccatcaacta ttgtgaatag aatccaaaat cagatgagca 120
agtctctgca tgtagagcac aaaaaggaga ggaaataagg ggtctccatg acaaaggccg 180
ctggacaatt tgaaggaatc gataagagat ctattccagc tgatggagat gtttgtccaa 240
ttgatgcaac gagagattag ggagaacatc cgagaaggaa gaccaagggt ttggagggtta 300
tcgatggtga aatcccattc aatatgatca aaagcctttt gaaggctcag cttcaagatc 360
atgtagcaag gcttactagt attatgctct agagaatgaa caagctattg gatgataaca 420
taattgtcca taacac 436

<210> 2540

<211> 294

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2540

agctttgtcc tcgagagatc ttattcgtgc ataaccttct tctcaatctg cttctgttca 60
tcgctgtcga agttgaagat cattccctcc aaggtttgaa cacatgcaat gactccctca 120
aatcccctta gttttatggt tctcttccac tttgtgtaac cctcatggaa ttttttcttc 180
tgttcacagt tttgacctta caagtcacgc tacccttact ttgtcactcg agctttaact 240
gggccatgtg tctcttcaag gtttgtgaag caacgccaga gcagntcatc tacc 294

<210> 2541
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2541

ctgagagggt ctgatatcca aaggacacc cgtgctgntt ccagattcat tgataagaga 60
 agcacaaata taaaaacat ggctaagaca accttcttca attaagccat caaaaaatat 120
 ttggctactt gtatgtcaat tgcttctact tgtgcagctc cgatccagat ttcacgtcac 180
 tagctggata tctgaacctc cacactgtat atgcagcagc attgacatcg cacaaaacgt 240
 tggctnttct cttaatttat ttttctctga tttgaaaaac atccttgtat tcgacaacct 300
 ccacaccgta aatgcagcag cattgacca tagggtaaaa tcaaccacgt gtaactccag 360
 atcatatagg aacatatttc aattttgcga gaaagaaag 399

<210> 2542
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2542

tgtgagactc actaagggca gaccttatgt tatgcgagcc tttggagaat cgactaggaa 60
 attttctgtc ttgggttgta gagagactca ccaacggcgg accttgagtt tgatgagcct 120
 atgagactca gcaagggtgg acctttgggt ntatgagcct ttggagattc gaccagtgc 180
 gtgtccgacc tggattntgg tgagattcac caagggcaga tgtagtcgt cttatacgac 240
 taacttttgt ataaaaaact ttacaaaaat gtatataaat cccaattta tagttctttt 300
 gtaggattgt aaataaattn tgctctgttt tgatctatgt tcattaaaag cctctttata 360
 tggaattaat gttaaattct cttcaatttc aggcaaaaat gagcacaatt gaag 414

<210> 2543
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 2543

tgagaacctg cgacgtacct aaacaggcga gtccttggca gtctaccaat aatagaacac 60
 agtccacgaa tcacggaggc ttgtgtggcg gctggccaac tatttgtctt ggtgctatct 120
 gaaaataccc tctggaatcg ataccatcgt gagaatcgat acaggggtta aaatgggaca 180
 ggatgttagt agcttttagta atcgatacca ttgtgtgaat cgaaaccaat tgtgtgaatc 240
 gattacacag atgatagggc actagtaatt gattaccagt tgtgtgtaat cgattacata 300
 tcgctactct gctatgggaa tcaattac 328

<210> 2544
 <211> 486
 <212> DNA
 <213> Glycine max

<400> 2544

tcttagtctc agctgatgaa gatgaattct tggctacttc atgcactcct ctaatgacaa 60
 tagcatcact tctggcacta aattgttggg agtttgaacc catcttctca attaaatttc 120
 tggcttcagc aagggtcatg tctccaaggg ctccaccact ggtagcatct atcatacttc 180
 tctccatgtt actgagtcct tcataaaaat attcgaggag aagctgctca taaatctggg 240
 ggtaagggca actggcacat agtttggttaa atatctccca gtattcatat aagctctctc 300
 cactgagttg tctaatgcct gaaatatctt ttctgatggg cgtggtcctg gaagcacgga 360
 aatatttttc taagaatact ctcttgaggt catcccaaca cgtgatggac cttggagcaa 420
 ggtaatatag ccagtcctct gccactccct ctaaagaatg acgaaaggcc ttcagaaata 480
 tgtgat 486

<210> 2545
 <211> 156
 <212> DNA
 <213> Glycine max

<400> 2545

ggagtacgac agtcaccgct ttaagagcgt tgtacaccag cagcgcttct aagccatcaa 60
 gggatggtcg tttctccggg agcgacgcgc tcagctcagg gacgacgagt atactgattt 120
 tcaggaggaa atagggcgcc agcgggtgggc accact 156

<210> 2546
 <211> 457
 <212> DNA
 <213> Glycine max

<400> 2546

ctacagcaca tgccactatt cttcaagttc ttaaaggata tgtaacaag gaaacacaag 60
 tatattcatc acgaaaacat tgtcgtggaa tgaaattgta tcgttgtgat tcaaaagatc 120
 cttccaccta agcataaaga ccttgggagt gtaaccattc cttgttcaat tggagaagtc 180
 actatgggaa aggctcttat tgatttggga gccagtatta atttaatgcc actctccatg 240
 tgcataaggt tgggagagtt ggagatcatg cccactaaga tgactttaca acttgctgac 300
 cgctccatta ccagaccata tggagtaatt gaagatgtgc tggtcagagt aaaacaattt 360
 atcttcttga tagactctgt ggtaatggat atctgtgaag atattgacat tcctgtaata 420
 ttggaaggcc attcatcgta aactgtgagt tgatagt 457

<210> 2547
 <211> 201
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2547

agcttctccg aatgcatggt tatttccagt ttctgaaga tatctganaa tctttccaga 60
 tgacgatctt cttccttntt ggaaggtacc acaggatatg gtacttccac accttcatcc 120
 ataatttttt cacttctact cttctttgca ttctattat tttttcttc ttttcattat 180
 ctatttcggt ttctttttct t 201

<210> 2548
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2548

nttcacttca agtgctgggt gcaccaacaa anatgctggg tgcacctagc aacagtgcga 60
 attaaaacca ttttgcttgt tatgaagcca agtccaagat cgaaactaaa catcatcaat 120
 caaagatttt ttatccaatg aaacatatta aaaatattgt tgttctcgt attccaaatg 180

ccaaaaatcg ttgaacacca tatcacctgc catatctcac tctctacgcg tccatcaatt 240
 gcgagaagaa gcgttctaag tttccatgga acgttggttg aagattagaa gaaaaccaag 300
 agctacattc taacgaaatc tactaggcta cttgcatga natgaaaata tgataaatng 360
 actcaatttg agagtgatag aagcaacaat gtgaactgtc caccaatata tttcgtcttt 420
 tgcaaatcac 430

<210> 2549
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2549

agctagcttg tggngcttct atggaggctg gatctttgag cttcaatggn gtcctttaat 60
 ggtgattttc caccatggag atgcagcgga agacaaagga aaataagtga gaggaggcgc 120
 catccattaa ggaataagcc atggatgaag gagcttcac accaagatga gccttggata 180
 aaaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagaggng 240
 ggagcacgaa attgaaggaa taaaagaggt agagaagtgg aacttgaagt atgtctcaca 300
 agactctcat tcatcanagt tacaacaagt gttacacatg cttctattta t 351

<210> 2550
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2550

cgcaagtctc caccatcat catgttcgaa ctgaacagaa agtaccaca aacatgcact 60
 aaattgccta taaactcaaa acgtgtttaa ttgaatttat tttaaactct gtcatatgtg 120
 tttcattaca attatgaggc atctcactgc taaatttggg tcagcttggg cttctgtcc 180
 ttgctgccaa tggcctgcat aatgatagtt tagtgcagtg tcgattctct tctagggcca 240
 atctctagta ggactttaag gtttttattt tttatttatg acataaaggt tgattggatt 300
 aagatatttg aaaactggaa cttcaaaaga gtcaaattac tcttcatgcc ttattctgga 360
 ataggacagt ttccttgaat ttttatataa cctacaaaat aaatgtagat ggagttggct 420

tcattcagtc atatggnttg gactntaatc ttagntaatg tccttagcat cattttctta 480
aataa 485

<210> 2551
<211> 326
<212> DNA
<213> Glycine max

<400> 2551

ttgggggggc actaaaatgt tataaagaaa catttttaat tctctctaaa acattaagga 60
tgaacatata ttactatag aaactcctca tggtattaac agggaaccga taagcaggga 120
agatgacgaa aaagatggaa atctttacgg gtagggtagg aattatgatt aacgttaact 180
tgatatcaat ataaaaaatt tgttttcata tggtatacca cataaattgg aggctgttgc 240
tgcttgtatt tctattaacg agaaaaaccg agaggagaaa atcctcggtg gtgtgttaaa 300
aaaataacat aaaacgcttt tgaatg 326

<210> 2552
<211> 923
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2552

ggtaaataag ggaatagaaa aatatcncac gaaccaaacc attattgaat acaatttaat 60
aatatgacaa cncacaggaa ggatgagtcg ttgannnccn ncnnttnnan aaaacccgag 120
gggaggnaaa tgaaaanata gagaacggag aggttttaaat ttacaacgag gtaagataaa 180
aggggggagat tgtactaaaa aaggaggaaa taaaagaaaa gaatggtaa aaaaaacgca 240
aagatgaaga atgaaagaga agaaaaatag atataaagag gactgtagag gccatgaaag 300
aataagtgcg gagcaaaaaa gttagganan aaaaannnaa anaaaggtaa aaaaagaaga 360
aaaggagaaa aaaaaataag aaggagaaga agaggaggaa gaaanggaga aaagagggaa 420
agagaaagaa aaaaaagaat aaggaaaaag aaaggaaaaa tagggaagaa gaagaagaga 480
gaaaagaaag aggaaaaaga aagatgaaag aagaaacgta agagagaaga gatgagagag 540
aggaaggtga gatgaggaaa gaagaaaaga aaataagaat aaagagaaag aaaaggaaaa 600

ggaatgataa aaacgggaag atagagatag aagaaaagat agatatagag aaagaaaaaa 660
 agagaaagag aatagtaaaa aggtagggcg gaaggaaata agtgaagaaa aggagaaaga 720
 tgaagaagta aaagagatgg atgaagaaga aaaaagtcaa aatattaggc aaaaaagaag 780
 aggcagagtg gaagatatag agaataaaga gaagaaatta gtatgagagg taaatatcaa 840
 tgataaaaaa tgtaggggaa attagctaga caagtggatg agataagata aaagcataaa 900
 aagaaaaaga agaaaaatag agg 923

<210> 2553
 <211> 1089
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2553

actgatcgag tcagactgac aacgcnacaa catcactgaa ctccaacccat ccactagtan 60
 gcttctctct caatataaac tcaatcgaa cctccccccc caccnncg gggtttgatg 120
 acatcgtgtt caccgcagn gccatactat agaactgcct gcatgcaagc ttgcttctaa 180
 caaagaacac gattggaata ttttaagagga acccgacact atcatgaagg aaaagcagag 240
 ggacgagaaa aagagtgtt catatgataa ctatgttaca tagcccttgg catctttttc 300
 gaaaaggaac tgcaccacac tcgatacaaa ttttggccct ttgacaatgt aatgcaataa 360
 catttctata ccgtcgcaac aatctagacc taaacaaaaa atacctaagt taacctaaat 420
 tggtatccac cacctatatt ataacctcca ataaaagaaa gattcacct attgaccaa 480
 acttaaaaac acattttcta aaaaaccttg atgagacgaa tgtatccct tatattaaaa 540
 aaaaccgcc taaattggaa cgccgtagaa aaataaaacc ctaatctcca cgcgactac 600
 tcttttctcc tcaactcaat gcttaaaaaa cgagaaaacc ggcggtgtcca ataggaaacg 660
 ctataacaaa tcgaatggtt gacaagcctc aaaccgaatt cttcatcaa cactaaaacc 720
 cttgcaacga aaagaagttc ccgaaaagg ggctcttaatt tctttcatcc caccacacc 780
 tatactcaca atactaatct tcttatataa caaagctacc cacagagaaa tatccccacc 840
 ccacaacta cactaatgnt atccgtggc tctataaacc cccttgggnt agaagacacc 900
 tacaaccaa cnetcttaca aacctaagag tgggcgcact cttacacaca aaaaacctt 960
 cgacataat acctagtaac tcttacaaaa caataatatt cgcgggcgcg cgacgccagc 1020

gcttcccctt ggtttattaa taaacaaaa catatagacg cgcgcgggcca caacatacac 1080
acacctccc 1089

<210> 2554
<211> 200
<212> DNA
<213> Glycine max

<400> 2554

tcagtgcctt cacacacaag ggtctactaa tttggttgct attccgttgg aggggtattac 60
gggggttgct gatcttgatg agagaaagt agttgcatat tttgacagca agattgttcc 120
tgtgcccag gctgaggga ctgagtacgt agcttcaaag caaaagcctc catttggacc 180
aacgttcatt ggagcagctt 200

<210> 2555
<211> 490
<212> DNA
<213> Glycine max

<400> 2555

agcttgaatt taggtctcat gggatatgctt ttctggggta ttccacaact caataagggt 60
tacaaatgtc tttctcctat tggaaaactt ttcattctta aggatgttgt tttcaatgaa 120
gtcaaatttc cttattcaga actgcttttg ccttctctca agtctgattt accccctatt 180
aaccocatct ctttcattcc ctccatacct attgttctct aatcaatttc ttctctttcc 240
ctctatagca attctgttgc tactcctact tctgctgac ctacagctga ttcaaattcc 300
aattatagtc cttctgtcaa tgcggattct actcctgcta ttgcatctga gattcctagt 360
cctatctttg aagctggatc cacttctggg caagaaaatt ctgctcagtc ctgagaattg 420
gtccctctg aagtactcac aacgcaacaa tggaacatgt tcctacagtt aattcccatc 480
ctatgccaac 490

<210> 2556
<211> 210
<212> DNA
<213> Glycine max

<400> 2556

ctgtacctta actagttaca aggattcctt ctcaaattccc cttattcagc taaatatgta 60
 ccttcaaaac ttgaactttc aacccgagtg cacatacttg atctaaaaga tactgtcata 120
 ccctaatttc gtccggggat tattatttga tgatatacaa cctttgattg gccgcttcaa 180
 gataactaggc accctttttt gcacaatatg 210

<210> 2557
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 2557

agcttccatc agcgtgacac cctctacccc aacatatata taaataaatc gaatatatac 60
 aaatatcggg aaccaaattc acacgggtaa aagggtcaca ttcacttcac tattatcaat 120
 taaaacttat taaaacatat ttggcacaaa ataaggccga caaaaattat aaaaaaattt 180
 tgataaatta gtgaaataac atataatata agcttacttt tcaataatca accacacttt 240
 tttactcctc aatcacatta cacaagaatc acacattttc atccagacat aataacacat 300
 caatttcata ataaacaatc agcaacgcat atgccaacgt tatgc 345

<210> 2558
 <211> 87
 <212> DNA
 <213> Glycine max

<400> 2558

gctcctgtat caacctggaa tgatcagatc gccggacaac ttagtccgct tgcgcacaac 60
 tcaggacggg gaccttgccc tgcaaaa 87

<210> 2559
 <211> 494
 <212> DNA
 <213> Glycine max

<400> 2559

agcttgtagg attatggggg acccatcaca tgtggtacta tgtggcggtc gggcgatggt 60
 gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgcccac 120
 ctccaactga gctcacgtac tcccacgtag cccatatcct cgtttttctc aacaccgggt 180

ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca cacagcacia 240
 gctatcacag ccaagcaaaa caaaagaaag gcagaaaact ctgccaaaac accaaccaaa 300
 aatcacagct tttcccactc aaagacccca gtaacaattc cttcgatcca atttggtaac 360
 cggttgatcg actccaaaat tttactggaa gtctatagta cataagccta cattttgacc 420
 gttgggatct actaacaac atccagaact cattttacat tactctctcc acaaccgcga 480
 aaaacatgga tttt 494

<210> 2560
 <211> 181
 <212> DNA
 <213> Glycine max

<400> 2560

ttggtcgtat gcaaaatctt gaaaattgga ttcttcaaaa ttttgcatgt gtggtggtat 60
 gtagtatggg ggtatgggtg tgattggtga aacaagctca acttcttcct tatcatcttc 120
 ctccctggaat tgattgtgta gaactttgtc ttcacctca ctataagggc tgagtcctt 180
 t 181

<210> 2561
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 2561

ccaggcttta ataataaaat atgttgaggc aagttttaca tttggaaaca agacacactt 60
 gattaacttc ttctttggat tcatgaatat ttttgtgtgt ggaactaaat gttataaaga 120
 aacattttta attctctcta gaacattaag tatgaacata tatttactaa aagaaattca 180
 tcaatggat taagcaggga accgataagc agggaagatg acgaaaagat ggaaatctta 240
 acggtcaggg tatgaattat gattaagttt aacttgatat caatataaat aatttgtttc 300
 catatgttat accacataaa ttgtaggctg ttgctgcttg tatttctatt aacgagaaaa 360
 accgagaggg agaatcctcg gtaaagtgtt caataagtaa acataaaacg cttttga 417

<210> 2562
 <211> 201

<212> DNA
<213> Glycine max

<400> 2562

gttggtcgta tgcaaaatct tgaaaattgg atgctttttt aatttgcatt tgtggcggta 60
tgtactaagg cggtatggat gtgattgggtg aaacacgctc aacttcttcc ttatcatctt 120
cctcctggag ttgattgtgt aaaactttgt cttcatcctc actatacggg ctgagtcctt 180
tgttatgtaa gccacggtct a 201

<210> 2563
<211> 455
<212> DNA
<213> Glycine max

<400> 2563

agctttgagc caattcaaac gacaataact ttttactcgg atgtctgatt gaggcccgta 60
atatatcgag accgtcgaaa ttgaatattg aagctctaag ccaagtaaaa cgacaataac 120
gttttactcg gatgtctgat tgagtcctcg catataccga gacgctcgaa attgaatgtt 180
gaatctccga gccaatcaa acgacaataa ctttttactt ggatgtctga ttgagtcctg 240
caatatatcc agaccctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300
acctttttac tcggatgtct gattgaatcc ccgtatataa cgagacgctc gaaattgaat 360
ggatgaagctc ttgaccaatt caaacgacaa taacttttta ctcggtatgtt tgattgagtc 420
cccgcatata tcgagaccct cgaaattgaa tgggtg 455

<210> 2564
<211> 200
<212> DNA
<213> Glycine max

<400> 2564

tctcaatacc aactcaatac agagagggta aattattgag ttttttgggtg cgcgcatgtg 60
caagtcctta tttgggggtgc acatatacat tgcacatact caaagtcctt ctttagttat 120
caacataata agaaagaaag tgctatttat accaccacat taacatatta tcaactctta 180
agtgagaaca cagaaggaaa 200

<210> 2565
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 2565

agcttctccg aagggcatgg atatttccag tttcctgaca aaatccaaaa atctcgccaa 60
 atgacgggtcc ttctctttct tggaaggcac cacaagatat ggtacttctt taccttcggt 120
 tacagcttta tcaacttctac tcttctcttc attttcattt ttttcatctt tctcaatttt 180
 tgtaatctct ttttcttttt ctacttcttt tttctttttc ttgggcatta aattcttttt 240
 ttcttgacca ttatttggtt ctctttttct tgattgcttt cacctctcac atcatttttc 300
 ttgccctcag tgcctttctt tttagcagct ttcttcttat gcacaacact ctctcatcc 360
 tcggcctgca caaatctttt actccttgtc atcacagctt tgcatttctt cttgggattc 420
 ttttctgtaa ttgccaccaa at 442

<210> 2566
 <211> 201
 <212> DNA
 <213> Glycine max

<400> 2566

tcaacattca atttcgagcg tctcgatata tggcgggtact cattcagaca tccgagtaaa 60
 aagttattgt cgtttgaatt ggtcaaagg ttcaacattc aatttcgagc gtctcgttat 120
 attacgggac tcaatcagac attcgagtaa aaagttattg tcgtttgaat tggcttagag 180
 cttcaacatt caatttcgag g 201

<210> 2567
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 2567

agcttgtaag tctccagacg acgagagtaa aaacctgcaa aatttttgaa aataatcaga 60
 atcggacgac caacatcatc cagataccgt cgaatttggt cacctcgatt gatgaaagga 120
 gcggatgatc ataaggtatc tctgcctgcc accttaacttg ctgtccctgg atgacaaaag 180
 gtgcggaaga cgatgttatt ctctgtatgt caacgggctc gtttgcccct ggtaacgaa 240

agggtcggat aaccatacag tatccccgc atgtcacctg acttcatggg tcaggatgac 300
 aaaagggtgca gaacacgatg ttagtctctg cgcgtaacg agctcgtttg cccctgggtg 360
 acgaaagggtg tggataacca tgcggtaccc cccgcatgta attggacttg gcatctctag 420
 atgacataag 430

<210> 2568
 <211> 125
 <212> DNA
 <213> Glycine max

<400> 2568

tctaaacttt gtacaagaat gaagctctga taccactttt tatacaagtg gcctcagata 60
 tcttaagaag gggggggggg gttgaataat attcttcata ctgtcctccc tattttttta 120
 ccctc 125

<210> 2569
 <211> 275
 <212> DNA
 <213> Glycine max

<400> 2569

acaaacaatg tggaaaacaa actaagatcg tgtgatcaga tagagggtggg gagaactatg 60
 gccgatacac cgaggatgga cacgcaccag gctcatttgc gaaatctctt caagaacatg 120
 agattgttgc ccaatacaact gtgcctggtt cttcgatca taatgatggg gcagaaccaa 180
 caaatcacac ccttattaaa catggtgaca agcatgacga agacagaaaag cttcctcaat 240
 tttcgggatt gatgctetta atacggctgt gtata 275

<210> 2570
 <211> 195
 <212> DNA
 <213> Glycine max

<400> 2570

tgttcatctt gagataataa gtggatcatc tcatttgaag ttgttggtgc aacatatttc 60
 tttggcctaa catgaactcc aatattttta cagcttctaa tgttatgatt ggtttggcca 120
 caccttcac atgtaaactc agccaatttc ctctttaact tatgtcctgt gacattgtcc 180

tcattctacag atcttt

195

<210> 2571
<211> 378
<212> DNA
<213> Glycine max

<400> 2571

cataattctt cattccaatt gacgacatgt tacatacata aaaattggta cagaaacttt 60
gtcatactat ccttagctcc aaataaagaa aaaaaaaaaa agaagctttc tgtcatatat 120
ggttcttaat ttgcggaaac aaaacattgc tctagtgcac cttttttcca gaagtttact 180
tgcactggga aaaatataac caaaagagtc agctctaaaa catgatggta aaattatgca 240
attatagcgc ttggcgttta tgtgaaagcc atttccagaa tatttattga tcagacatcc 300
caataagatt ggaaaaaaaa gcttacaaaa tcaccagcgc tacctgaatt tattattcac 360
atatagatat cataacca 378

<210> 2572
<211> 197
<212> DNA
<213> Glycine max

<400> 2572

tattccaaac tttctacgcg gtttcaacaa cagttcaaaa cttttaaatc tggatttgca 60
aaatcgtagt ctcacggatg gaagtattcg tatgtcatct tctttcatta ttaggtctac 120
atcttctctt gagtcccttg atctcttctc aaatctgttg aaatcatcca ctatatttta 180
ctggctcttt aactcca 197

<210> 2573
<211> 412
<212> DNA
<213> Glycine max

<400> 2573

ttaaaaaact ttggctttta catgccccac tcccttgagt gggcattgaa ttgggaggta 60
tcttgggtgg tccatcatag tacatttgaa attttgattg gttcatgcat catcctgggt 120
tgggtgaaaa aagattataa tggtagaaaa atttctttag aagacaaaaa ttctctattt 180

ttaatcgatt accttgtaga aagccacatg acctttgggt gggtctgatg aatgatccat 240
 gatgaatttg atggcaacat gattgccaat tgggcgtttt caaagggttaa aattcaagac 300
 ttatgattcc tgaataccag ccccatcatt tagatgatca ctattacttt tacgaaggga 360
 atttttaatt gatataccaa aagggttggc ccaataatgc atgttaaaaa gt 412

<210> 2574
 <211> 200
 <212> DNA
 <213> Glycine max

<400> 2574

ttataagtgc gggtttaaga cggaaggcc aagttgccgc gatatgcgag gatgactccc 60
 cgaggagatt ggatttgata cggccatgtt ctcccggttt ccgacaagga aattggtgag 120
 tggaggaacg cccagacgtt tatgcgacaa gcataatgta accttttgta gctttaaaac 180
 tctacgattg ggcctatgct 200

<210> 2575
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 2575

agcttattcg aagccccttg aattgaatgt cgttcatgca ttctcaacca ttgaataccg 60
 cgccccatga attgattggc taacgtgct catgcacct ccatcatcaa atcttattcg 120
 gagccccatg aattgattgt cgttcatgcc tcctccaccc ttaagacaa agccttccga 180
 aatgactgcc aagctctgtt cgtgaaacct ctatcattaa atcttattcg gagccccatt 240
 atttgattgc cattcctgca tactaaacat gggtttccga gccctactta tgattgtcta 300
 ctggtggtcg tgcacccctc accatcttat ttcgagcccc ctgaattgat tgcggtcatg 360
 catcct 366

<210> 2576
 <211> 207
 <212> DNA
 <213> Glycine max

<400> 2576

ttttggagta gaaacatggg ataaactcat tttattcaaa aagttataac tagtcaagat 60
 ctgagcgaca atacaaactt cctagcggtt tctaatacata tgggccatta agtctatcat 120
 atgttgacaa tagctgagaa gtctgtggat cttcttgggg gcggagtagg tgtccgccat 180
 tgctttggcc ttggctagca atcgggg 207

<210> 2577
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 2577

agctttaacc tcatcggctc tcacagactt tatattttgg agccaatcca gtccttgtgg 60
 tcggactctc agccacttat gatagccgcc gatgatccca ttactgcttc ccctaagctc 120
 tctggccttt cttcacgccg catcccatgc cttgcgaact ccttggagta cctcgcggt 180
 ggggtcactg aaacctcatg cgatgaaagg cgtgatgctt tcgtctgatg gcactcctct 240
 catgggacat tcttcgcatg aaaatagaat cctgaatctt ccttccttct agcgagggaa 300
 ccatttaaca gacgcccctc catgctagcc aagagttggt gcacaaaaaa caattcttgc 360
 gccgctcttt tcacatcccc ggtcgaacgt gttatacatg gcccaaattg cgacgaccgg 420
 gctttccttt gcatgaagaa ag 442

<210> 2578
 <211> 208
 <212> DNA
 <213> Glycine max

<400> 2578

tctcgggtca tgctgggaac gcctctagtt caacaccgt gctgcctaag gcaccaccc 60
 agagggaagc tccccaagtt ccaactccga acgcgactcg accggccggt aattccaaca 120
 cgacaaggaa cttccctccg aggccattgc cggaattcac cccgctcca atgacgtacg 180
 aagatcttct accatccctc atcgccaa 208

<210> 2579
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 2579

acctggagat atgtcacggg ggtcaggaaa ccttggggac gtcaggtggg gtgctattgc 60
ccaaaaccaa gcttcaccaa tcgcgaccca acccgggcat tgattacaca gtgtaagttg 120
cagggttcca tgttctgaag ctgtgtaact cgagtttggc ctctggtaat cgattaccaa 180
tgctgtgtaa tcgattacca gagaagaaaa cccttgaggc atacctttta actacatgta 240
gcggttatgg gacgcattgt gttgttacct cgaagtagat ttctcgtgaa agagactacc 300
cccttttctc ttatttcttg agatcgtgaa ggcagcgcaa ttaatccatg atcgagtgga 360
gatggagtgc ct 372

<210> 2580

<211> 206

<212> DNA

<213> Glycine max

<400> 2580

tatcccccaa ttttctataa atagggggag aagtgaagtg aatataggtt caccacctta 60
ggcacttctc tctctttcga atttgcttgg aaaaattgtt tccgtgaaga aaatccaagc 120
cgaggtgctt ccgaaacgtt tccgtaacgt ttccatgagg aatttcgca aggtttcgac 180
cgttcttcga cgttcttcat tcgttc 206

<210> 2581

<211> 565

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2581

ttgacaaaac gaagttcatg tgaagtgaag tgaagtcact aactaactaa cactaatata 60
tagagggtta gtaactaact aactcactaa ctacctaatt aaactaatta cacaacatag 120
aagcccaaac tcgcaaccta attctttaag tgcagagggt ctagcttcca agctcaattt 180
gacctcgag atggcaaaaa tggccatttg gagttctcac acgtttctta gctttccatg 240
gactactcac acgttccatt tggagttctg tagtgctgc taggccctgc acaaggcaaa 300
taggtcaagt aagccaaaat ctaaaattta gctacaattc tcaattaagc tcaatcattt 360

gccttagacc aaaactgatt taagggtgaga aaataatggt caaagagatt ntcattgagc 420
 taagaagact aaaaaaata ttaaactttc aaatgctcaa tcgaattccc ccacacttta 480
 tcttttgcac ttagggcaaa actaanagaa agattaaaaa aaatcaaact acaaaataac 540
 cacaacctaa aagaaaggta tgaat 565

<210> 2582
 <211> 741
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2582

cctactccaa tcaagttatt ggtcgggac gtgaaactat tggtgtttgg tcataaggat 60
 aatagttctt atctgattag gtcaggggag gccggcccg gggttaccg tgattggtaa 120
 tggcataacc agaaagagga gtaggggaga caagcttatg cgctgtgtag cgcagcccat 180
 ctatttcggg tacagggacg annnnnnnnt nnnnnnnntn nngnnnnntn ntntntntnt 240
 ttttttntt tggttttnt ttttttttt tttttttatt tttttttgt ttttttngtt 300
 ttttttttt tttgttttgt tttttgtttt gattgggttg gttatattgt ttttatgtgt 360
 ttattgtata atgtttgggt ttttttttga tattgtatga atttatattg tatttatattg 420
 aattattttt attgatgttt tatgatttta tggtatgtat atataatgtt atattttgta 480
 atgagttaat tattagtatt gttatgattt attgtttatt ttgatgatta tattattatt 540
 gttgttatta ttttttggtt ttgattatt ataattattt tttttttatt ttgagttaat 600
 gtttttgtaa gtgttggttg tggaattata tggtgtagtt ttattttaat tagtaattaa 660
 ttatatttgt gattttatta angatgatgg atatgaattg cttatatagc ttgattgatt 720
 gatcaatgtt gttattcggt t 741

<210> 2583
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 2583

agcttgctct aaattacatt gatgtttgta tttatgggag gaggatgtat gtcatttttg 60
 ttttaagagt agtgtccac tggtaaaact aactttccaa atgtttgcct tttcaagaaa 120

gtacattatt tataaaaaacc gaatggatag gatttttttaa aaactttttt tttacaaaaa 600
 accaaataac ccggatttaa accaccccccc c 631

<210> 2586
 <211> 1212
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2586

ggctagaatc gatttcgtaa tactacctgt atacctcatt gcagagctct atcacttctc 60
 cgtacaacca ggattacatg tcttcnatat nctcnccnn cgnnnnccga gtttgaatgc 120
 atggcaatca cagacactat annnaatact caagacttct atgcatgaa tagctgcgag 180
 agacgtgcaa actgcattcg aacaatcagg atatattgtt ctaatagtct atctccacac 240
 acacgagagg caacgagact tccgagactg ttctcatatc ctcgtngtag actgacgact 300
 actggaaagg tgcacacgac acagttgaaa ctactcctgc gtaaggcaac caaacccggtc 360
 ccagaagctc atttgatcac gagattggac cggcaccgct cctcagcaga ccattacgga 420
 aggatactgt gctagacaga tccgaccaa ccgccggggg nnnnnnagtn annannaann 480
 gnnannanag aaaaaaggga gaaaaaaaa annaaaaaaaa gaaaaaaaaa aaaaaaaaaa 540
 aaaaggaaga agtagaagag gaggtagtat agaaagagaa aggggaagtga gaaagatagg 600
 agaaggaata aagagaaaag aagaggataa gaaagaaaga tagtaaatat agataaaaag 660
 agatagtgga tgtgtataaa gataaggggt aggtatgtta aatgaagtgt gatagaatga 720
 ttgaaagaga agatatgagg gaagtatgaa gaggagatta aatatgagaa ttaagttgat 780
 tgatgggtgt aatgataatt gaaggaagaa ttatgggtat atataaggta atgaatagat 840
 aaatgatatg agtatgagtg ataatagagaa tggagatatg tatagaagta gttgatagaa 900
 gaataatagt aataataatg gttaagngta gtatagaata ggagtaatag atnaatgtaa 960
 tagagaaatt aaggtatagt agagttaagt gtaaataatg gaaattatga gaagatgaaa 1020
 taagtagaag agttatgatg aggagtagag agaataagtg tagtggtaga tatntggaga 1080
 nagatangaa ctttgatcgc anagttaatg tatataggaa gggaaggngt aatatgagag 1140
 ttgaaaatta tgggtataaag aggtgnggat agaaagatat tggatgtgga agatgaagta 1200
 atangaatag ga 1212

<210> 2587
 <211> 1060
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2587

cggttaagcac tcaaactgtgt acacgaccgt gctggtaaca agctagtgca ttactcttac 60
 caaaccgtac catcctcgac gctcttgac gtaaacatcc atatcccacn ncccnncacc 120
 cccgcncccc ggtcncnnng ttagactttc gtacgtcact tnccganngc acccnnagaa 180
 agaactgaca ccggcagggc anaggcatat acacacctca tatcgtcctt cttgacgaga 240
 ggcgagtaat atattgtggt ataccaagtt ccaaaaactc tcgaggcgaa ggagggccta 300
 cactcaaatt ttggaagacc cccgacccca tccctaggac cataccaacc cttaaactcgc 360
 cttaacagac aaaagaagga cgcgcaagaa acaactcact ttgtggaaga accgtgtggg 420
 gcaaaccctc tcgaaagata gccaatcgat aaagagccga aggaggaaat gatgggttgc 480
 aattacagaa cgacataaaa ggactcgcca cggaaatagc caaggcggtt ccgaactccc 540
 aaaagcatta accggacacg cttgaactaa acaaaatggc gggcccagca ccacgaacaa 600
 taaaaaatag tggttaaata cccccaccgg aaaaaaaaaa aaattggtga ccccccttat 660
 aattgaaaga cctcgagacg aacatcacta acaaaaagaa tgtagaggct ctacagacgg 720
 actactcaaa aaataacaaa cgaaagcagc gggatgaagc caaagtgtcc tctatgagaa 780
 aaaaaaatct ctccctatga aaaaaaagaa aaacgttcag aataagcgaa tcaaggagag 840
 acagaagtaa ttacgccccg cctgcttata caaaagggcg taacacctta caaaggagat 900
 tgaaagtcca caaaaaacaa tactgggtgc cctatagggg aaaacatatt ggggagaaaa 960
 aaaacaacat cccaagaaat ttccgggggg aggacacacg caaaagaaaa gagaaggcaa 1020
 ttcgccccgg tggaggacat aaataactcaa caagtaaccn 1060

<210> 2588:
 <211> 786
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2588

acgggatgaa atcattgacc tagcagacac catacactat tgaataactca tgcttaccac 60
aagcgccaat cagtggactt ggcgagtggc tatttttttt taccctccta gaggaaagat 120
cctttatccc ctcatataaa ccaactgctt attgctggca aaaaaaagcc ataatcatag 180
ttctgatgcg gtcaatggca aaataactcat tggggccaag gaccttctaa ggataaaaag 240
gctttatatc caaagacnnn gtatgtctaa tataagacga catagtatgt agtatatttt 300
agttctatgt ataatgttta cgttatctga acttattatc tctattttaa ttacattata 360
cgtgtgactt ttagatatcg aatatattgt agcatctgat tagttttact gatataatttt 420
aatcatactt atcagctgag atgtttcatt tagagatttg gtattccatg taattttaca 480
tactctcaat atgctatata attaacgctt tacgatttct ataataatat atttatattt 540
atggtatata tttttaatat ggattattga attaattttc ataataatat ttcatttttg 600
cattacttaa ttctttatcg acgatgtctc attagtagat taactcaaat agcatataaa 660
tattgatcga gaatagtaaa atctgaactt ctattttcga gtttttgagg catgatatag 720
tgttgatatc ttctaactca tattgactgt tgattataat tcataagtga ttttttctat 780
tgcttt 786

<210> 2589
<211> 412
<212> DNA
<213> Glycine max
<400> 2589

agcttgtagg attatgaggt acccatcaca tgtgggtacta ggtggcagtc gggcgatggg 60
gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgcccac 120
ctccatctga gctcacgtat tcccacgtaa cccatatact cgtttctctc aacaccgggt 180
cccatcaat cctcccaagc ttccacaaca tccaatcaaa acaacattca aacagcacia 240
gctatcacag ccaagcaaaa cagggcaaaa gcaaaaaact ctgctcaaca caccaaccaa 300
aatcacagct tttctcactc aaagacccca gtaacaattc cttcgatcca attcgtaaac 360
cattggatca actccaaaat ttactggca gtctatagtg cataaaccta ca 412

<210> 2590
<211> 911

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2590

gcattctataa cacacaatct ccatcacctt cagacaataa actgcacacc ctctgatcat 60
 aaccctata ccncncnnn ncgggggatg atgctgcatg caaaccanaa caanaagct 120
 ggacgncacc actcaaaagc tgggggcagg aacggatttt atttttccca cgatctacag 180
 acaacacatc agccctgaat gagtcaagga cgcacccgcc cgaggggaac cccgagaggc 240
 aatggcataa ccagaaagaa cagtctggga aagaaactta tgcacgtggg accacacccc 300
 atcaatatcc ggggcgaggt cgtcnnnnga annaaannaa naaaaaaaaa aaaaaagag 360
 aaaaaaann aaaaaagaaa aaaaaaanaa gaanaagaga agaaaaaaag aaaagaggag 420
 gggaaagaga ggaagaagag aaaaaagaga agagaagaag agagaagaag ggagagaaag 480
 gagangggaa gagaaagaaa gagggagaag agaggagaag agaaggagag ggaaagggaa 540
 agaagaagaa aaagaaaaga ggaagaagat gaaaaagaag gaaaaagaga gganggaaaa 600
 gaaaaaaaaa aaagagaagg agaagaagag aagaaagaga aaagaaaaag aaaaggagaa 660
 ggaagaaaga gagaaaaaaaa aaagaggaag gaagaggagag aagagaaaga agagaaagga 720
 gagaaaagaa gaaaaaagaa gagganaagg aagagaaagg aagagagntg aataaaaaatg 780
 aagaaacgaa gagaggagtg agagngaagn nngaataaag atggagtata taagagggaa 840
 atggaggagg gtattatgag tgataaatga atggaggaag gagataatga tgaacagaat 900
 gaaaatagaa g 911

<210> 2591
 <211> 133
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2591

agctttgagc acattcaaac gacaataaat ttttactctg atgtctgaat gagcnccgga 60
 atatatcgag acgcttgaaa tggaatactg aagatctgag caaattccaa cgacaataaa 120
 ttttttactc cga 133

<210> 2592
 <211> 201
 <212> DNA
 <213> Glycine max

<400> 2592

tcggtattct atttcgagcg ttccgataaa ttatgggact caatttgaca tccgagtaag 60
 aagttattgt cgtttgaatt tgctcagagc tttggcattc catttcgagc ttctcgatgt 120
 attacgagac tcaatcggac atccgagtga aaacttattg tcgttcgaat ttgctcaaag 180
 cttctacatt caattttgag c 201

<210> 2593
 <211> 521
 <212> DNA
 <213> Glycine max

<400> 2593

agcttgccaa tgctctctgg aatgccttca actgcatcaa aactattggc tactaatcca 60
 aataacgtga attcttggga cccttcaccc catttgaggc cagcacttac tttgcctcaa 120
 atgccagttt ttgcagcttg gacagatgca tagttcatag ctcaatagtc cttttaattt 180
 tttgttctct caagtgaat ttcaatcctt tttattgtct ttttttgcac gcatgaacaa 240
 cacaagagga aggggttgta gctagtcaaa tggagggtct aaatattata tcatcacatc 300
 actgtcagca agtttaattt aaactttcaa atcattacat tttagcattt tactagttaa 360
 gaattcctga attttcattt tcattttcaa tatatccttg tggccagatt ttgtcaattc 420
 attcattgat agaaacggac gaaaaaggat ataaaagggt atgattgaga ggggggaaata 480
 ttaaaggcat atgggggggag acaccattca atattcatca t 521

<210> 2594
 <211> 323
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2594

tcaagaaaa gatggcctca gcaaattcct tatttcctga aggaattct atcaatagac 60
 ctccaatctt taatggagag gggtaccact actggaaaac ccgaatgcaa atttttatcg 120

aggcaataga tctaaatatc tgggaagcca tagaaatagg gccttatata cccaccacag 180
tagaaagagt ttcaatagat ggtagtnnnn nttntntnt ttttttgtn ttttttggt 240
atTTTTTTTT ttttggtata ttttttata atgttatttt attaataatta tttttttaa 300
tttattataa tatttaatta tat 323

<210> 2595
<211> 973
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2595

tcgaacagac cacaatatat ccactgcaca caccgactta ttacaccact gacatcaccc 60
cgccacacta acaattctcc tccctcaanc agccnccggc nttgtgactt ggacacaccc 120
gcgaaccccg gaaacaaaa aaagcaccgc aggaagaaca ctgggctttc cccccgaat 180
tttttttccc gggcaacaca aatttcaccc cacgggggta ataaaacata tcatacaaa 240
aactctttga aacaataag aaaaaacctc tcaccagcaa aagaggaacg ctggggaaaa 300
aaaaaattca aaacctgggg gcgaaaaccc ccaccacggg ggcaacaaaa aaaaaaaaaac 360
caaaccaagc caatgagaga aaaaacaagg ttccccacct cattcttagg ctcccgccaa 420
aaatcttaca gcccacccgc aaattaagaa cttggggggcg cacaccccaa aagaaaccat 480
gtgggataca acaaacggcg aaaaaaaaaa ttggaacccc ctagaaattt aagacacca 540
agaaagcctg tctttacca aagaaaatgg aagcttgctt gctcccccca aaacattaaa 600
attgaacgag gggggcgcaa gctctgggag aaataggagc ccgaaaattt tttttctaag 660
aaaaaagacc caccaccgcc ggcttatggg cgctaaaaca ccaggcaga aaaaccccg 720
cgcccatctt ttataaaaat aaaacaaaaa cggggcaata ccacgagggc aagtggaaaa 780
aacacaaacc tggacacaaa aaagcacttt tctggggcgcc aaaaatcttg gaacaaaatt 840
ggatatggca aggattctca caaacaacc atcgcaccca attatcacgc atactccaac 900
gaaggggggt ttcaacaaa aaagcgcaac aaaaattcca aaaaaataat agccgctccg 960
aaagagagaa acc 973

<210> 2596
<211> 198

<212> DNA
<213> Glycine max

<400> 2596

tcaatccaga aggtcttcta atcctactgt ctatgaggtc aatcatttcc aagatgacaa 60
tatagatctc tcaaccgttt ttcttatata tacaagaaac atgccatatt gaaactatct 120
cacataacta actcactaat gtaactaact actggataac taacctatta taactattaa 180
tgacagttac ctaatcac 198

<210> 2597

<211> 1466

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2597

gtgggacacg acagncgtcg gtngcgtacn tcccacacgc gagagaacat atagaggaag 60
tagacgagcg gaagcgctan tggagacgca cgcgcgncgc atatctaacy cgcacgatcg 120
antnggagca cggagagaaa cacacacagc acacacacca aacacagaca gccgaatnag 180
agatttgtac tanagcanat cggcgagagn anancccnac ccncanannn nanngngnna 240
nancgngnan agcaaaccga cacggggcga cgggacganc anaaacgaca ncagagaaga 300
acgacacang acngcgcgnc gagaacgcgc gcgcgagcat gntntgatac acagcgagcg 360
cangacggaa aacgacnggc gaacggggccc gacagggagc ngcgngtgac cgaaaagaca 420
cgaacacaga cgcagcgcgc acgcgaatgg ccgcgacgga caggagacga tgcggcagcg 480
ggagccggca atgtacgcac acggcggacc agatgatacc gcgcacggcg ccacgaaaag 540
cgaaggcgac gcgaaaggag cgcgaagaaa cgcgaaagca acggacacag gaaaccacgg 600
acgcggaaga gtaaaccggg gagcgcgaga cgaacgaatc gaacgaacgc acgaagccgc 660
gcgaggcgga cggaatggac cgctacagac ggatgcagcg tgcgacacga ggagagcgga 720
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agaacggacg gaaagcagat aacacagcac gggacgcaga cgcggagcaa cagacgggtga 840
acggagagag gagcgcgggc aggacgagat cgcacccgca acaaagccac gccgggcgaa 900
ctacgaangg acacggacga tagngacgac caacagacag gaagcgcgcg acgcggagac 960

gacacagaga cgaacgtacg cgactcagaa ccgaacgcgg acggacagga tcaggatgaa 1020
 ggagtagaga cgcacgtcgg agacggatcg agcaacgcgc gagatcgaat cgcacgcagc 1080
 gacatagcaa gagagaaacg cacggacgcc aaaggcagcg gcagatgaac acatcggaac 1140
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 ggggacggga gcgaacggag cacaggagac agaaacgaga cgacaacgaa gacaaagcga 1260
 cggagacgag aggatgacgg acgagacgcg gacaggacgg gagagggcga gaccggaatc 1320
 gcaaaggaga catgcgccgc gaccgaaacg atggggcaca gacgcagacg gacggcaagc 1380
 gcgtgcgccg accgacaagc gaaggcgacg acaccacacg gacggaacct gaacacggac 1440
 gacagggtcg gagcgacaac gcgacc 1466

<210> 2598
 <211> 761
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2598

tttttccgca ttcagagaga attgagaaac tattatttac tctgacctag aatatgcagc 60
 caagtcaatt tccatggcca gacttgaaga tctctggaaa gagtatcata agatcttttc 120
 ttcaatacag gttataacta gtgcatttcg tagcattgaa cctgaattaa cagtttatac 180
 gtgcttaaaa aaaatagaag cgnnnnngtaa tcatcatcaa tacgcagacg tttaacgtct 240
 tttcatatgt tatgagttgt cagtcattac gtttctacat cttttctatt gcttcgtttt 300
 tagatttatt ccgtctttat tttgaggatt aattatatac cttgtgtgta ctacatgtta 360
 atgtatcagg tgactgtcat ccttaacgtg ttttgtagtt tgttataatt ttgtgtcatt 420
 gttcccatgt gttttaggat tctacaattg cgattcgatg gtcttatgac aagagtctac 480
 gttttatgat ctttttaatg tgatctcatg ttcagtatac ctaagatctt gatgctattt 540
 cgagcttctc gttcgcattc atgaccagaa ctgtagtgga tatcaggagt gatatagtg 600
 atactatcgg aggctcgagt ttatacccta gtttgaatca ttcttgtaat tgtgtctctc 660
 attatttaat gaagtnnadc tcccacccat cgttcgtttt cgtgntacgt cgacaatttt 720
 gtctttaaac attatactca tttgtcagat cagtacgttg g 761

<210> 2599
 <211> 344
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2599

acatcctcac cacttgtatt ttgcaatct tccatcttgt tcttctatct gntgataaga 60
 aggcttcctg gtattgaaag ttaaatactc tgttggatct tccctgtagg tacctgatat 120
 aaatatatct atatctatct aatgatgttt tatgtgttct ctgtgctatc tgcttttcat 180
 tccaatatgc ctttaccttg atcacgtaaa tgcattgttt gttagggtca ttcaacaatg 240
 gaaactggtc tgactctaaa gtccttgata gtgcaacgct taagttgcgt gctttcacga 300
 ggaatccggg tgtgataagt taagttagta tgtgtgtctt aatg 344

<210> 2600
 <211> 205
 <212> DNA
 <213> Glycine max

 <400> 2600

ttaaacttct gcagatatct tggttccttt ggacaactat atttcaaggg gaactgctca 60
 tttccttact tgcaaagaac ccgactatca acagagttta tggaacatga tttcatctgt 120
 gagttacttt tacattatta ctgagtcgc cactgtttg gttggcctga tggttgataa 180
 tgattattat tattttttct gttat 205

<210> 2601
 <211> 443
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 2601

gcctggctct gaattttcct caagttctta actagctttg aaccataaac ttgggcctca 60
 ttttaactgt tttgggcttg gcagccacgc tcaacaaagt actttcgaca cctactgtac 120
 gttgatttca ccaatgcttg tatgggaatg ttgcgacaat cctttaaaac cttattgata 180
 cattctgaga ggttcgttgt catgtggcca tattgacgct cttctctatc gtaagccatc 240
 gtccattttt cctttgagat gcgatcaatc catgttgcta tggctggact cagttcacga 300

aatTTTTcta aatTTTgaaa aaaatgtgct tgcacggagt gtacgctgca taaaaatagt 360
 tatgaataac aatTTtaagt ataaatgaaa gtaaaatana cgtgaccatc anatatgaaa 420
 tcttacccaa tttcttcaaa cat 443

<210> 2602
 <211> 206
 <212> DNA
 <213> Glycine max

<400> 2602

tctccgtgtg ctacatcttc tccatcgatg cgtgtttggt ttgaagagta gtaatagtta 60
 gcacacaact cgtgcctcga cgtgtcttga ccgtgaattg ggattgtgaa actatttgga 120
 atttacatac tgtgtgacgg aggccctcac ttccaatcag ctaagccgat tcattagggg 180
 tgggggtggat aaagtgtaat tcgagc 206

<210> 2603
 <211> 504
 <212> DNA
 <213> Glycine max

<400> 2603

cagcttggag aattgctata gaaattctct aaatgttctc tgaagggaac ttcattggcca 60
 agtagggggg tggacactat ggcacctaaa gtatttagag acgggcgacc gagaagtatt 120
 ttgtcggaga tgtgggcatg cactatcaca tatcaaattt tcaaaccctt ctattgtata 180
 gtcatacgca tcccttggtt cccactcttt cttcggtgaa gccgaatagt gggccatcat 240
 ggggaaggag ctctaactcc aatataccca actgcttaaa agtgtttttag gataggatgt 300
 cagttgaact cccttggtca ataagtgtct ttctcactat acaattgggg atttctatgc 360
 ttatcacaac cgagtctatt gctttgaagt cagccaaagt aaagggtgtg tgggaaaatt 420
 atgtttacta accaaaccta ccatgggtgg ctttttcagt ctgagggtcat tgcccttttg 480
 ttagttgatg aatacaacta actt 504

<210> 2604
 <211> 208
 <212> DNA
 <213> Glycine max

<400> 2604
 tcacaagata tgcactctat ctctcaagtg tctaggctat tgtttactct cagagcaccc 60
 atgaaaacaa acaccacata gacttagcaa gactctaaaa ttgacaacca cataacaagc 120
 acatgcacat gaggatcaaa aggtctttta aggttgtaat ggggccaagg acaaggtaga 180
 tgaaagtatg ggatggtagc taaaaccc 208

<210> 2605
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2605

agcttgtagg attatggggt acccatcaca tgttgtacta agtggcggtc gggcgatggt 60
 gcacaacaag ttttccacat ccacaaagcg cgcataaacc caccatcccc tgttgcccac 120
 ctccaactga gctcacgtac tcccacgtaa cccatatact cgtttctctt aacaccgggt 180
 ccccatcaat cctcccaagc ttccccaaca tcaaagtaat acaacattca aacagcacia 240
 gctatcacag ccaagcaaaa caggggcaaaa gcagaaaact ctgccccaaa caccaaccaa 300
 aatcatagct tttcacatac aaatacccca gaaacatttc cttcgntccc atttttaacc 360
 ggtggatcaa ctcgaaattt ttactggaag tctctagtagc ataagcctac attttgaccg 420
 ttgggatcta ctagcaaaca tccagaactc attctgcact actcttttca caaccagc 478

<210> 2606
 <211> 207
 <212> DNA
 <213> Glycine max

<400> 2606
 taacaaaagg catgcgaagt ggggtggaatt cctagagcaa tttccttatg ttatcaaaca 60
 taaaaaggga aaaggtaata ttgtagccga tgctctttct cggcttcattg cattactttc 120
 tatgcttgaa acaaaattga ttggctttga atgtttgaaa agcatgtatg aaaatgatga 180
 aacttttaga gaaattttta aaaattg 207

<210> 2607

<211> 440
 <212> DNA
 <213> Glycine max

<400> 2607

atcatgaact atcaaaaccc aagaaaacag agcaggggca gagaactttg cccaaaacac 60
 aaaccaatac cacagctttt cttacttcaa taccacagta acatttcttt cgttccaatt 120
 ccttcaccgg tggatcgact tgaaaatttt actggagggt cctggtacat aattatacat 180
 tttgaccggt gggatctgct agaaaacgtc cagaacccaa tatgtacaac cttttccaca 240
 accagccatg cataagcatt ttctgcacaa acacaaaatt ctgctgcaca cttgaataac 300
 aaaatttctgc ttagaagtgc agatttttga aatcactctt gccctcatcc aaaatcgccc 360
 acattggatc ctacaagtcc taaatcaagg atatatcata tctaaaccaa agacaagctt 420
 caagccaagc aactcaaaat 440

<210> 2608
 <211> 229
 <212> DNA
 <213> Glycine max

<400> 2608

aactatata catactaagc ttgcttgtgg agcttctatg gaggctggat ctttgagctt 60
 caatgtggtc cttcaatggt gattttttcac catggagatg cagcgggaagg caaaggagaa 120
 aaagaaaagg gaagcaccat ccactaagga ataagccaag gaagaaggag cttcaccacc 180
 aagaattgcc ttggataaga agcttgaaga tgatgcttta atggaggaa 229

<210> 2609
 <211> 348
 <212> DNA
 <213> Glycine max

<400> 2609

agcttgaaga acagcttgaa gaattttgtg ttttacatgc gcaactaact tgaatggaat 60
 ttgcattgat tgggtgtatta tgtgttgcac cttagtcttt gtcattttat atatgtatca 120
 tgcatgatca tgtaggagta agaagaaagt ttctgaagct agaaaatttc ttttaattgg 180
 aaaacttttc tattttaatc tattaccgcc ttactataat ccattacaca agttggctta 240

agctggtata gaagtgcac ggataaattt aatcgattac cagcttggag aaattgatta 300
 cttatttttt ttttgagaca atgaatggct tattcatgaa tctctgct 348

<210> 2610
 <211> 200
 <212> DNA
 <213> Glycine max
 <400> 2610

tgcttgtgga gcttctattg aggctggatc tttgtttctt aatgaagtcc ttcaatggtg 60
 atttttcacc atggagatgc atcggaaggc aaaggagaag aggagagggg aggcaccatc 120
 cactatggaa taagccaagg aagaatgagc ttcaccacca acaattgcct tggataagaa 180
 gcttgaagat gatgctttaa 200

<210> 2611
 <211> 132
 <212> DNA
 <213> Glycine max
 <400> 2611

agcttttagtt gaacagaata atccaaaaat gtttaataat tgggtgttga aaaagcataa 60
 caagactttc tgtgattggt ttaaagatac aatctttgca caagagaatg ccttcaaaac 120
 attaagaaaa ct 132

<210> 2612
 <211> 201
 <212> DNA
 <213> Glycine max
 <400> 2612

tgaaggcaaa ctggatgcat tggttaactt ggtaaccag atgtgtcttg aatcaaaaat 60
 ctgtacctgt cgcaagggtt tgtggtttgt gtcctctgc tgaccaccat acagaccttt 120
 gccctttcat gcagcaacct gtagcaattg agcagcctta agcttatgct gcaaataattt 180
 acaatagacc tctcaacct c 201

<210> 2613
 <211> 511
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2613

agctttaact gatcgtttaa gtcgttttct cgcctaataa aaaaaataaa ataaatttcc 60
accgatcatt tgaattgtaa tatccattaa tttctgttaa aatgaaatcc gaccgttcgg 120
tcatgccgta accacgttgg aaaccaaaaa gagggtaaat aataatataa taaaaaata 180
tatttttagta aaataaacca aaaaaagcaa tccgacgttt ctctttggga tttctcttct 240
ttaattgaat tgactaataa ctaaagtga actaaggcta aaatcaacc gcaaagtcaa 300
gctcgccac aaaaatcact aaaaaaggat tttaagattc aatacctcag tttttcttac 360
aaagtaaaaa ggatgattct taagggtcaa cgccttanaa tgatcacctt tccagtaaaa 420
agaaatcggt gattcaccca taagaaaaaa ctacataggt cttatttcct cttcgatgga 480
gggtacgtac gaacaaaagc ccccgtttt g 511

<210> 2614

<211> 203

<212> DNA

<213> Glycine max

<400> 2614

tctttgagaa aacttccttg agaagcttct ttgagttaac ttgcttgaga agcttctttg 60
agaaaacttc cttgagaagc tagagcttat ttacacatac cctctcata actaagctca 120
cctccttgag aagcttccat aagaagattc ctaaagaagc tagagcttag ctacacacac 180
ctctctaata gctaagttca cct 203

<210> 2615

<211> 477

<212> DNA

<213> Glycine max

<400> 2615

agcttgaagg tgtgtagccc accatctttt tatattagaa tactgggaat gtgtctacta 60
tcattggcat cattttttct ctggcattga ggagccactt gagctgccaa gtctctccac 120
ctttggcgt attcttttga aagatttgtg ccccttttt gcacatgttc tatagttgct 180
cctatccgaa gacattatac tgacactggc taacgaaagc aaccactaag tccttccaag 240

aatggactcg ggaaggttcc aagttagtgt accaagtaat agctacccca gtaagacttt 300
 cttggaagga atgtattagc aattcctcat cttttgcgga tgcccccgtc ttccgataat 360
 acatcttttag atgggtcttg gggcaaggta gcccttgta cttgtcacag tccacaccct 420
 gaacttggga ggggtgatga tattgtgtac taggaacaac tcttctaagt tagcaaa 477

<210> 2616
 <211> 203
 <212> DNA
 <213> Glycine max

<400> 2616

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 tgccatgttc tcagaatgtt caaaatcaaa atgttcaaaa caataatgct caaaatcacc 120
 aataacaaaa tgctcaggat tctcaaaagg tactaaatga tgtctaacta atctatgaaa 180
 tatectatct atctcaggat taa 203

<210> 2617
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2617

agcttgtttg aacagtgaat tgattgaaaa tgatatgcag nggattgttt tgcattgaaat 60
 gagagtttga gaatgatttg aatgagcaat tgtatgatta taatggattg gaatgattag 120
 ataattgttt tgatcaagct tgcaatcatt agaagagaat aagcatgtga ttggaagtat 180
 gactgaaaat gttagtcagt ttgtcagatt gattgtgaag gaatgcatta accctatccc 240
 ggtgagagtg tgatccttaa attttgagag aaatgactat catttagtat tgatttttgt 300
 gagaatctct gaagtatgga ctgaatgcat gaaattgagg atcatgaagg ccatgtttga 360
 ttgtgatacc cacttagcca aaaagatgac cacgtgcttg aatgatttat ccottgcacc 420
 cagtttgagc taaatgaatt attgattgat tgaaccctga gccta 465

<210> 2618
 <211> 201
 <212> DNA

<213> Glycine max

<400> 2618

tcaaagacgg atgaaactta atttacctca tatcattttt agacacaata aagagatact 60
taatttgctg accatacata ctagcacaaa tacattatag ttggggacca accaagcaag 120
acctcataac ttgtcccagg ctttaaattc tgctaagcaa aattaaatac aatattgtcc 180
acttttgttt ggtattagaa t 201

<210> 2619

<211> 247

<212> DNA

<213> Glycine max

<400> 2619

ttgaaggga cctcctctat ctatgaactt atcatcagat caaatgcttt tgaaattttt 60
aaagaagaaa tcaactgtact gggctagaga taaaaactcc tccaattcaa gttatttata 120
agaaccctaa tggcggattg tgaaatcttt gtgaacacca tgacttgaat tggtttataa 180
tttgatttga tgcgaataga aaatccaaca tcagaaattt ctacaagcca aagattaacc 240
tttggtt 247

<210> 2620

<211> 190

<212> DNA

<213> Glycine max

<400> 2620

tttaggacta cttaatttat taatcgatgt aaccctaaaa tttaggaagg gggatatttt 60
caagaaacaa ttgctagagg ataagaattt catttgatgc atgtcacttt ttaatagtat 120
gaatttgttc aatgggggtga taagtaacaa gcataagcac aggttccttc ggccaatgaa 180
atggatttcc 190

<210> 2621

<211> 206

<212> DNA

<213> Glycine max

<400> 2621

agcttgataa tggaagacac atgaacagct cttgcaataa cattcatggg gctccgaaaa 60
 atgggtgagaa tggaggattg cctttgaggg cctcacttat gcaatcatga aacacaactc 120
 ccaactcgaa agtggaggac acatgaccag ccctaagcaa taacattcat gtggctccca 180
 aaaaaggtga aaatggagga ttgcct 206

<210> 2622
 <211> 199
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2622

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 ccctcgcggg agactctctc tctctctctc ctctctcttc tattcttcgt ttttagtttt 120
 agtctctctt ctctttctct tttattttcg ntttttttc aattccagtt cagactttta 180
 gttttatcaa taaaatttc 199

<210> 2623
 <211> 428
 <212> DNA
 <213> Glycine max
 <400> 2623

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 caaataaata ataaagtcac ctgcactcaa agaaagtcac ataagtctca tacaattaat 120
 atagaaccta tatcctaatag tcacatccta tcagagcggg gtgttcccgt gtcctctagc 180
 atgaggttct tcataggcat tcacctattc atctgctccc ccgaacacaa gttcaagatc 240
 atcacaggat ccaaacacaa caacacacag ggagtgagtt atcacattcc tagctaatag 300
 agaaacaaga caattaaata tacgtattat ataaatgaga taccacttgc ttaaacaatag 360
 ctcacgtaac ttcaccactt cggatttcaa aattcacttt tcaattatca atcacattac 420
 ccaagaat 428

<210> 2624
 <211> 211
 <212> DNA
 <213> Glycine max

[illegible]

<210>	2625
<211>	260
<212>	DNA
<213>	Glycine max

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aaactcactc tttttccact cataacacca tattctcact ttctaaccct aagttaactc 60
tacccttcat ccctagcaag tttccataag ccatttcagc acaccaacaa caaaagtatc 120
atcataaaac cataaaactga agggtagcta actactcaac aaacaagtca gcatgctttc 180
gtaaatctct tcacaataac tatcaciaag cattaaccaa acaaactacc catcatatct 240
ccaaagccca taccccaat 260

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<210>	2626
<211>	206
<212>	DNA
<213>	Glycine max

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acgtagattt attggtcgtt atttgatttt aaatttggag tttgatttca tgataaggat 120
caccttgtaa ttgaaaatt tatcctaata atgccaaaag ataaattaaa aaaattgatt 180
gtttctctta tagcatttga tcatgc 206
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<210>	2627
<211>	248
<212>	DNA
<213>	Glycine max

aacattttaa aaccacttg aaccatcata aattcaattc taggatctaa aaaaggcaca 60

cttgagcata tgaattggat tacattgtat gttacctgca aaaatcaaaa taataataac 120
 ttcatatttt gtaaacctta acataattac cattcaatta aattgaatgt attacatact 180
 tccctatata tatgaagggtg ttgtttccaa agaaaaggac cacctttaga ttccatgatt 240
 aagggtttt 248

<210> 2628
 <211> 209
 <212> DNA
 <213> Glycine max

<400> 2628

ctttaaactt catacaagaa tccctgctctg ataccacttg ttgtaccttg tggcctcaat 60
 aatcttaaga gggataggct tagaatgcag aagaagcaac aacaatcaat ttaacaatgt 120
 tcttttggaa tctctctcgt tgtctgttga gaggataaga cattttggac caaaaacact 180
 ctctcttcaa ttttgtccca agtcacaca 209

<210> 2629
 <211> 87
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2629

tatgtggtag attnatcaaa actaattggt ccattttgtn ttgctggtgc aaatttacat 60
 gtttgctttt atatttttgt ataggga 87

<210> 2630
 <211> 942
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2630

cctcccttct tttagagggtc ctctctctct cctccctcc ctttcttttn ttctgtcctt 60
 ctctctttcg tccccccctt acccacacct ggtatacttg aaacttgtgg ccgctgaac 120
 cccgagatct cctcgaggga ctcaagcgcg gggtattctt ttttataaac aacagatata 180
 gttctgtatt tttctcgaga aaaaaagcc tctgagccct ggcacccac tgaaaaacga 240

cgagtggtg tgccaacgat aacacaccct gacagtatgt gcgagatttt ttcactaaga 300
catcggtgggt cgaaccaact tagatatctt aacatgggcc catgacaaca ttggccacg 360
gtggaagcta gaagtaacac aggacgtctc actgcccgtt caaggggggtg ggcagacaca 420
caacaccaac cgatgggacg cctcgtctaa tcttctcgcc cgaacgttat ttggtaggac 480
agggactcat cactactaac acacagggac tagatgcacc atttttggaa tgaacaagag 540
acgtgtgttg taccgcatca accccacgga tggggacttt tgatcgccga ctacttcacc 600
caccctttcc taaaaatgac aagaccgcg cctaattgtt gccatgcacg tggacaaggc 660
aattatgcaa aatagaatgc cccgaggaaa gattatcttc tcgataaaca ctcacatggg 720
gacaacgcac cacaactttt ggtcgcgggg ggttcttggt gggaaaaaag acatcgacgc 780
cacgatgggg gggtcagggt acctaccag ccccagaaa ggcgcggggt gatccgcct 840
cgctctttca cctgcttcca aaaaaacgga cgcgccaccg cgcgatactg caccgatggg 900
tcgcgataac ccgcgatcga agcgcgggag aaaagatcac tc 942

<210> 2631
<211> 145
<212> DNA
<213> Glycine max

<400> 2631

tgttgcaaaa agcgcttagc acaccctgct gcgctaagcc ccagatgctt acgggatttt 60
acaacttcaa gttgggctta acgcgaggct atgctaaacg cttgggtttt aaactcaaac 120
ttcatgttgg cacgctaagc tcagt 145

<210> 2632
<211> 449
<212> DNA
<213> Glycine max

<400> 2632

aagcttgcca accatggaag ccctaaatct tcccactttt tggggggggc cattcttggg 60
tggccttgat tttctcaggg tccacttggg tcccatttct accaactaca aaccctaaga 120
aaactatatt atttacacaa aaagtacact tctgtatatt tgcatagagg gtgttttttc 180
taaggactga aaaaacttgc ctgagatgtc ctaagcgatc atctaggctc ctactgtaca 240

ctaaaatatac atcaaaaataa acaactacaa atctacctat gaaatccctt aagacatgat 300
gcataagcct cataaagggtg cttgggggcaa tagtgagccc caaaagcatc actaaccctt 360
catacaaacc agacttgggtc ttgaaagcgg gtttccactc atcacccttt ttcattctgat 420
ttggcgatcc cccttttaag atcaattttt 449

<210> 2633
<211> 197
<212> DNA
<213> Glycine max

<400> 2633

tgatattatg ctaagcctca catcttatgc taagcgcata ttggtgaaat atttcttggt 60
ttgcaaaaag cgctaagcac accctgctgc gctaagcccc agatgcttac gggattttac 120
aacttcaaga tgggcttagc gcgaggctag gctaagcgct tggtttttaa actcagactt 180
catgttggca cgctaag 197

<210> 2634
<211> 240
<212> DNA
<213> Glycine max

<400> 2634

gggatcttaa gtgaccgcgg ctgcagcttt taacattaaa tgggtataact tttactcgga 60
ggccggaatt aggcgcataa tatatcgaga cgctcggaat tgaacaatgg aagctcttga 120
gcaattcaaa tgggcataac tttttactcg gatgtccgaa tcaagcgcat aatatatcga 180
gacgctcgaa attgaacaat ggaggcaccc aagaaattaa atgggcaaaa acgttttact 240

<210> 2635
<211> 193
<212> DNA
<213> Glycine max

<400> 2635

ctgatgataa catgacaaac tccaagtgtc tcattttggt gacaacgtca tttatatacc 60
gatcggtatt ttgcatgaaa aggggagaaa tgggaaaaga ttaagatccc cgagaaataa 120
cttaacaaaa aactatatgt ccctaacct cgattattat agtccaaaga ttctcccaaa 180

ttattataac gtg

193

<210> 2636
<211> 232
<212> DNA
<213> Glycine max

<400> 2636

agcttgcttg agaagcttct atggaggcta tatctttgag ctttaataag gtccttcaat 60
ggggattttc agccatggag ttgccatgaa agataaagga aaaaagggga gaggaggcgt 120
tatccacaag aaaataagcc atggaaagag aaacttctcc accaagaaag tggcttggat 180
tagaagcttc aagaagaaaa gaatgagaga aaaagagggg gcataagaat tg 232

<210> 2637
<211> 205
<212> DNA
<213> Glycine max

<400> 2637

ctttgatgta acatttggag aggttaatga aacaacgtat tatgatgcgc tccatgagag 60
gttggatcaa atggagaata gagaccatat gaattgctca agagcttcca ttgttcaatt 120
tcgagcgtct agatatataa tgcgcctcaa tcggacctcc gagttaaag ttatgaccat 180
ttgaaatgct caagagcttc cattg 205

<210> 2638
<211> 368
<212> DNA
<213> Glycine max

<400> 2638

caagctttat gaagtttttt ggtttttctaa accttgaaaa cttgcgctat tcattcttttc 60
attctcttct ctcttttgcca aaaagaattc accaaggact aaccgcctga attcttttttg 120
ggtctctctt ctctcttttc caaaagaaca aaggactaac cgcttgaatt ctttcgtgtc 180
tcccttctcc cttgtcaaag aattcaacat gacacagtct gagaattctt ttgattcttc 240
ccattcccta atacaaaagc attcaaaggt ttaaccgcct gagaattctt ttgtatcccc 300
attcacaaag tattcaaggt ttaaccgcct aagatctttg tcttaacaca ttggaaggga 360

catccttt

368

<210> 2639
<211> 217
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2639

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ttgagtttac atggagatgg gacttattta aagaaatggc tcaccaaagtg tgaaccttg 120
gtttgttgag ccttagaaca cactggcgtg ttagccttga gttttatcaa gcctatggag 180
ttgcgtcaac gcttaccaag gacnnntttt tttttt 217

<210> 2640
<211> 497
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2640

agcttttttaa aaagaattta acngngntcg acacctctg cctatgtcca cgagaccgtc 60
ttaaaaagta tttcactatc acaaaaatga ttacaagatt gtaaccacc ccaaatactg 120
tatcactcta caaacccgag tactccactc aatgggtata agaaatgata acactctcac 180
acaagacac tttctctca acaaagtgc tttgtttcac aatctctctt ctcacacaca 240
ctctcttcat gggttgggtt tctcccctaa atctcttctc tatttatagt gaagattgcc 300
accaactatt ataaataatt tctcttgga gttgaaacaa aaacaatttt tcaatgcac 360
cattaagcta aagctcatct agtaaaatgc aatctttcac tttccattaa agccacctaa 420
accttagtga tgaaaatcca attcccatat gcatgcactt atcttgggtt gaaactctac 480
acttaactat tattttt 497

<210> 2641
<211> 204
<212> DNA
<213> Glycine max

<400> 2641

tgctaagatt tttagtatga caatttcaaa atataagaat aacataatca tttattgtta 60
 gggttttttt cacgtctttc taaattcaaa atccaagtat tatttgatac aagttacttt 120
 aaccttcact ctcttttata gaaagaaaga aaagaagcaa ctatcactta aagtaatata 180
 agacaatatg agataatttc ttta 204

<210> 2642
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 2642

agcttcacaa gatgatgccg atcgaacttt tcctaactga tatcatgcaa atttcgttca 60
 cggattgaat tgaaaactca atagccgaca tcggcctcga aatagccccg attgatattt 120
 ttcagccgac attgagcaat tttttttaaa aactctcgct ggcagataat ggttttttta 180
 cggtagagga agttttcttg ttttggtggt gcataaaata tttacaattt aagtcggcta 240
 ggattttttg tgcgagctca accgaacttt tgtttgggcc aaaactggct tgttcccatt 300
 tattcggcca gcaaaacatt agcccattcc ggcaaaaaaa atattattca cccgat 355

<210> 2643
 <211> 198
 <212> DNA
 <213> Glycine max

<400> 2643

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 ttgaattgaa aactcgtttag gcgacatctg tcgtgaagta gcgaccgata tttttcagcc 120
 gacattgcac aattcttttt agaaaagctc gctggtcgat aatggccttt ttacggcaga 180
 gtaagttttc ttgttttg 198

<210> 2644
 <211> 142
 <212> DNA
 <213> Glycine max

<400> 2644

tgcaagcttc aaattcaact tcgagcgttt tgttatatta tacgactcaa ttatacatcc 60

gagtaaaaag ttattggcgc gtgaattggc tgagaacatc aacctctaatt ttttgagcgg 120
gccgatatat gacgggactc aa 142

<210> 2645
<211> 200
<212> DNA
<213> Glycine max

<400> 2645

ttgagcaaat tcaaacgaca ataacttttt actcggatgt ctgattgagt cccgtaatat 60
atcaacacgc tcgaaattga atgttgaagc tctgagcaaa ttcaaacgac aatatatttt 120
taatcggatg tctaattgag tcctataata taacgagacg ctagaagttg aatgttgaag 180
ctttgagcaa attcaaacga 200

<210> 2646
<211> 876
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2646

gcacggccga agactacgac gacagggcgtc tggaggggaca ccctggattc gcaagagcgg 60
catcactact aaaaaaaccc ctacnaaccc cccaagggtca tgagactgag acctcaccca 120
ccagggaaat acccccgggg gtggaggggtc gacgccaaga aaggggcatg gtttatgttc 180
atacgaaggg caggccttcc tggggggggg gagggggggc acacaccata acaacaag 240
agggtgaaaa aggaaacgaa agggaataga ggggacgaga agaaaaaaaaa gggggggaca 300
aactcgtagg cggcgaactg gggcgacaac acgagagggg gggcgaacgc gtcgggaggg 360
aaaagctggg tcaaaacaag cggacgagac aaaacgttgg ggccggagac aaactagacg 420
ttgatgtggg gatgagcggg tgaagcccaa aacctcgggtg gggaagacgg gatggaaaaa 480
acgcgaggcc gagggaccaaa ccacgaggca ggaaaaacaa ggaaatcgag gatggcgacg 540
ggacaagcgg aggagtggac gagactgcag atagcacaag ggggagcgat aaacgcgcga 600
gacaagaaga gcaacgggaa acggatgaga ggcgacgaag gacagaacag acgccgggga 660
aggggggaag aaaacatcgg ggcgatagag aacgtagctg gtgccagata gttaccaaac 720

gacgggaatc cggctcgatg acgctgaaa gcggacggga gagcacaccg caggccggcg 780
acgagcaata tctaaccgaa ggaaaaggat gatgcaaggg aaacgcagag ggtcgccgga 840
cacacctgaa ggggatagac gcttggagaa ggaaag 876

<210> 2647
<211> 207
<212> DNA
<213> Glycine max

<400> 2647

ttgagccaaa atcctgactc accataaacc ttgaccagg gtgagaatgt ttatccttac 60
tctcggaac aaaaaagaag gaaaggaaat ttccaatcaa agaaagaaaa aaggagagga 120
aaggaaattt ccaatcaaag agaaagaaaa gaagaggaaa ggaaattccc aatcaaagag 180
tgggagaaag aaaaaagaaa agaatga 207

<210> 2648
<211> 400
<212> DNA
<213> Glycine max

<400> 2648

aaacaacaac cttttggagg aatcttctgg agggcccaag tgggtctggt tgctatttgc 60
acccccattt ttactaaata caccctctgc ctttttttgg ggattctttt ttcgtaaagc 120
tacggaaact taataaattt tctaaccgat acttggtttc tttccgtaat gttaccgaac 180
cttgcgatt acataatcat cccttttttg acttacggaa tgttacgaaa cctcactaat 240
tgtgcaacga tgcttccttt tgatttccgg ggtgtcacgg aaccttacgg attgtgcatc 300
aatattttct tttgattttc ggcacgttac ggaatttcac aaattgtcta ctgatgggtg 360
ccaagcacct taataatgac caaacacaag ttgcatgcca 400

<210> 2649
<211> 208
<212> DNA
<213> Glycine max

<400> 2649

ttgagccaaa atcctgactc accataaacc ttgaccagg gtgtgaatgt taatccttac 60

cctcgggaagc aaaaaaagaa tagaggggaa atttccaatc aaagaaaaag agaaggaaaa 120
 tttccaatga aagcaaaaaa agaaaagaag gaaaattccc caatcaaaga gtgggagaaa 180
 gcaaaaaaag aaaagaagga aaattccc 208

<210> 2650
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 2650

ttggtggccc tttctctccc ttccaattta gttgggggga ccaaccctta tcgaagtaag 60
 ttccctctcc cttttgacct ttgtgatttg ctacttattc cattgttttt caaactttaa 120
 attttgctag tgtcacataa caccacttgc atttgtttaa cagtaatcta tttagtttgt 180
 tcattttcca attgcagcat aactcacttc tttagctatg ttgtgtggca catgctttga 240
 tgttgaaatc tcccaacttg aagattctga atattttgat atttttttta tgcttgtagc 300
 ggagacggtg atatagttca tacccttgct tggcttgcca ttttggaagt gcaaagcttt 360
 catgactttt ttttggtgaa gacaaccgat ttagcttgat cttctataaa ttattgcggg 420
 cttggatgca aattgttgtt ttacctagt 449

<210> 2651
 <211> 206
 <212> DNA
 <213> Glycine max

<400> 2651

ctaacaaact tagaaatcaa gtgatcatgt attccgcaat atatggggag aaaaacggat 60
 gcacatttta tctatataca attgtttgtt gcttgcttga atcttgattt caggtattgt 120
 attgtcatca tcaaaaaggg ggagattgta gatgcaattg gctttgatgt tttgatgatg 180
 atcatgatga tgtgttgcaa ttgatg 206

<210> 2652
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 2652

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<400>	2653
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<400> 2654

<210>	2655
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<211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2655

agctntgaaa tccaaagatc taatccaagg tatatgtttc ataaagggga ttcccttact 60
 tgtgtctattc gagtgcaacc tattctttta tatectattc gtgtgtaggg aaacttaagc 120
 tttttgtgtc ttcttttaaat aaagatatgg tgggagaaac cccaactagc ggttttgtgg 180
 taattttctaa tgggggggttg aattggcctg tggaaatttc tggtagaaca ttaatgattg 240
 atctaatttg ttggcctttg agccaaattg atgggtattct gggtagtgac tgggtatcctt 300
 ccaaccatgt cttgttaagc tgctttgata aaactatggc ggttgatggc tctagagtga 360
 gtaaggatat atatggagaa gccagcttca tgatgaatca agattgattc aaagaagttc 420
 tgatgatgac aaaggtgatg acaaaaagct caacgaccag aacaattaat gatacaaaga 480
 tgatg 485

<210> 2656
 <211> 188
 <212> DNA
 <213> Glycine max
 <400> 2656

tcaagtaatg agtatctttc ccttcactct agtgctttac attatataaa tttgccatat 60
 tctcgataaa ttttgcagct tcatcattta ggcaaagcac tgtcaaactc atggaatcct 120
 atggacacat catacagtga gcggcaatct ttttcccatg taatcaatat gttgccactc 180
 tcatctgc 188

<210> 2657
 <211> 434
 <212> DNA
 <213> Glycine max
 <400> 2657

agcttgcttg ataagcttct atggaggcta tatctttgag ctttaataag gtccttcaat 60
 ggtgatcttc agccatggag ttgccatgaa agataaagga gaaaaggatga gaggaggcgt 120
 catccacaat agaataagcc atggaaggag aagcttcgcc accaatagag tgccttggat 180

aagaagctca aagaggaata taatgagaga tagagagggg gcataggaat tgaaggagag 240
aagttgaact ttgaagtgaag tctcacaagt ttctcattca tcaaagctat gaaaagtggt 300
acacatgttt ctatttatag cctagcacat gggaagcttc cttgggattc tataggcaga 360
aagcttcctt gagaagctag aaaggggcta ctcatacccc tccaatagct aagctcaccc 420
ctatgtatga taca 434

<210> 2658
<211> 200
<212> DNA
<213> Glycine max

<400> 2658

cgtaaggatg gcacaaatca acgaaggatt atcaactaca atctttcagt catcgcttca 60
ctcaagctca agtggtgagg ctcatccat cgtaaacaac taacacaagg tccaaccttt 120
gcgtttcac tcatgtcata cagcgatgat cacacaatat gaatctgaat gacttcctag 180
tcttgtaatg ggggtaggct 200

<210> 2659
<211> 537
<212> DNA
<213> Glycine max

<400> 2659

agcttctata taagctgaac cattttatca atttacacaa gttgagtttt attcagaaaa 60
ttagagttta tctcttttat cttagtgaag gtgattctcc taagttcttg agtgattcaa 120
gaacacctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgccagaaag 180
agcgattttt tccttccttt catcttcaac cttggctttt caaaccacaa ttccagaaaa 240
tccacttctg cccagaatta tctcgtggcc ataactccag ttttacgcac tcaaattaag 300
tgattcttga gcctaaattg aatttcataa cgagacattt cacctcattt tggaatcacc 360
tcatttgag ccggtagct tgagctattg gcatttctat attatgtcca gcctcactt 420
aacctacgtt ttttttcac tcatattttc attttatgcc aagaaccaac ttattaagac 480
ccacgaaata aacaccttat ttttactctt tctttatcaa tttcgattt ccatcca 537

<210> 2660
 <211> 203
 <212> DNA
 <213> Glycine max

<400> 2660

tgtagccatt agaagagaat gagcacgtga ttagaagtat gactgaaaat gttagtcagt 60
 ttgtcagatt gattgtgaag gaatgcatta accgtatccc ggtaagagtg tgatccttaa 120
 attttgagag aaacgactat catttagtac taatttttgc gtgaatcttt gaagtatgga 180
 ctgaatgcat gaaattgagg atg 203

<210> 2661
 <211> 534
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 2661

cantcgcggc atgcaagctt ttaattagag gcgaattatt ttgaaggcca tgatgctttt 60
 atctatacca ccatgcaaata taatgctttg attgacaaat gctttaattc cacaagttgt 120
 agcttttttt taagaaaaaa atgtatttgt gtaataaatt tatataactt ttaacgatga 180
 agagagaaat aaaataaaaa gagataaaat agatattttt tgtgtgtgat aatcaaggct 240
 taaatattaa attttggaga aactagctat ctcaatctca ccactagatg gaccctagta 300
 aggtataaaa tataattgat atgatgaaga gtgattgaac aagtatttat ctataaatat 360
 ttatatgaga agaaaataaa attaattaa gtttttctat ttattaaaat taacttacac 420
 cactgtattt ttacatatat aaactctctc ggttattaac atattggcgg gccgagtgac 480
 aattgattta attttttaaa taagggtgta tgtttaagtt ttgtaattga aaaa 534

<210> 2662
 <211> 200
 <212> DNA
 <213> Glycine max

<400> 2662

tgtatttgtt gagcttggtg tagcatgtta tgtttgctgt tattttttta ttctttgacc 60
 ctttgaatgg ccaaactgga ttttgatgtc ttcagtagag ttgtagagaa ttctatcctt 120

gacatttagg tactggtctt atgtcatttg gaccaataac acataataaa tcttcaaagc 180
attgcactta cgttatattg 200

<210> 2663.
<211> 489
<212> DNA
<213> Glycine max

<400> 2663

agcttataga gttaagtctc atataggttt aatcaattac aattgtttca taatcgatta 60
cattgctggt tgagacaatg actaatttat tcaaaagtct ctgctttaat tgattaccaa 120
gtggattaat caattacttc tctctcattt agttgttcaa aggagaacaa gaatacttta 180
atcgattagt taaagcatct aatcgattac attgttcttg agttctttcc agatgttggg 240
aagaacactt caattgatta cttaaataat cttatcaatt actttgttga attaataat 300
tactttgtag atttaataca ttactggcgg ttatatcagt tttctctata aataaccagc 360
ttgtgttcac aactacacat caagagatca atagagatta ctcaacacat ctcgaaaata 420
actcattaac ctctgaatga gaatgatctc atgttattca taatgaataa gagaagaaaa 480
gaaaagagc 489

<210> 2664
<211> 204
<212> DNA
<213> Glycine max

<400> 2664

tttcgcaaag cttatggtaa aatctgggac ttagccatgg tagaagtctc cacagaagcc 60
attgcctccc tcgcccagta ttatgatcag ccgatgaggt gcttcacctt tagggacttc 120
cagctatcac ctatggtaga agaatttgaa gaaatcctac gatggcctct aaggatgaagg 180
aaacctatc tcttctcagg gttc 204

<210> 2665
<211> 958
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 2665

gactgatacg tattgggtgt cagacgtgn tatgctatac cgtgttgtaa agcgtagatt 60
 gtggtagtta gtgtaacgat atattatcnt cctcctccac tcacagccnn ctttttgact 120
 ctgagcgaca tcgaggcacc cggagaaaat cccaaggaa acccccggg attggaagtt 180
 tttggaagtg ggaaaatttt tttcttatat tttgatagac acagggggga gtgacggtac 240
 agagagttcc tgtaaagaca cacatccttc agaggggtat aaaaaaggga gaaggggggg 300
 ggccggattt tcttcaatgg ggaggggaaa aacggtggga gaaagctggg gtatgactat 360
 ataggagggt ggggagacgg gatgacaaag aagggggatt ttttctcccg ggcatagaa 420
 tagagccaca agagttggaa cgggtcggga ggggataact cccacaagtg ggtgtcgtgg 480
 agggggtttt gtgggtaata agcaaaacga ataatgggtc ggaggggacg ggaaaagaca 540
 gaatttagct ggcgctttg gggattttga taaaagaagg aggtttttaa gacggtggaa 600
 agggccttgt tacatatcag gggggggagg aaaattattt taggtggatt tatagaaaag 660
 agagcaaaag ggggtatggg cgagtctccc gaaaagagga tcctatgttt aggggtggga 720
 gggaaaagat tggagaaaat gtggagataa gagaggggaa gaaaaaatgt gtgttaattt 780
 tgaagaaaag gagttttggg gtggggacgg aagaggatat tgggcgtata atttcgaaaa 840
 gggggtaggg aggaagaggg tcgaagaatg tgtttaatgt tgggggaaat ccttagggga 900
 gggaagggag gttttttttg gttaggaaaag tgctaagagc accaaaatgg gggaatcg 958

<210> 2666
 <211> 198
 <212> DNA
 <213> Glycine max

<400> 2666

tcttaggatc tttgtgattt gatttgtgat ttgatcttag gtactatatg acttcccttg 60
 tgattttaga tcatttgtga tgacaatgaa tctactaaac atctcctcaa tatattctgc 120
 ttcttccata ttgaacaggt catattggag tgtcaagatg tttatcgtgg actcatttac 180
 ttagttagtc ccatcata 198

<210> 2667
 <211> 199
 <212> DNA
 <213> Glycine max

<400> 2667

tattgtattg acccácccca agtggctgag cttgtgcagc aataaggtct acaatcaacc 60
catcaaatgt ctcttaagta ttttcttttt atgctttatg tcacttaagt cttaaactt 120
atattgcatt aaaaaaaatc ttgaccttat aatgagtcac tattaatgac atcacataag 180
actcatataa agcccagtt 199

<210> 2668

<211> 424

<212> DNA

<213> Glycine max

<400> 2668

agcttcttcg ggtatccttg ctcaatcctg aatttcttct acaaggtcta actcaattct 60
tattaaattg tttttagtag ccttatgaaa ttgttgatc tgaacaaga gttcttcaac 120
atcaatagga atcattgcat cgctaccata ggctagccaa aaaagtgttt ctttagttgt 180
tcattgaggt atacaacggt atgccacaaa aactcccaac agcttcgacc catgcttctt 240
ttgcttatcc aagttatfff tcaactcacc gaggataacc ttattaaatg ctttggcttg 300
tccattggat tgaaggtggt caattgagct gacttgatcc atttggggaa gtaatcgacc 360
acaactatta tgaacttgca ttgccctfff ttcaacggaa aggctacatg gatattcatt 420
ccct 424

<210> 2669

<211> 202

<212> DNA

<213> Glycine max

<400> 2669

tctcagattc tttttgaaca acttgtctta tttcttctcc aagtttcctt tttctttgag 60
ctataagttt ggcttttagag gagatagaaa gtttgatgaca aatgaaatta tgattgacgc 120
ctgacaagtt aactgcactt tatgcgaaca aatcaacatt ttattttaac aggtgctcta 180
tttttcttcg aagatctaca tc 202

<210> 2670

<211> 437

<212> DNA
 <213> Glycine max
 <400> 2670

attctggttt atgagaaatt ttcttaaaaa gaaacacacc actaaattct atgtgccctt 60
 actgggtattg ggcgtataaa tagggcttgg ctcttatgca ctttatagga taatataaag 120
 taccatatta attaaaaaaa atcaatgggt aagattgtag gtaacttaat ttagatttta 180
 taatatttat atttgatttt attacaatcc caatcggtta tgttctaatt atcaatgggtg 240
 agtgcactttt attctctaaa atgcaaccat catttttagtt taaaggaacc aaattctata 300
 aatgatata agtatctgaa ttgcttttaa ttccgggtgg taacagggtt taaggcaacc 360
 cacaacaggc tgggaggttc aacttcacta cacaatttcc ttactataaa gaaagaaact 420
 tacatgccag aatttta 437

<210> 2671
 <211> 1089
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 2671

cattttcaaa gtaattantc tataatagtg aacttctatt acagtgatga taagtatata 60
 ataagatagt agaataatat tatattcaat atncttccn caaccagggt ggaatgaata 120
 cataggaaaa cagaaaaata aaatgagact aggacaaatg gggctgatgt agggattatt 180
 tttttttgga atactactct ataaaaaggg atcaggattt gtaagagagg aaaagttaaa 240
 ttgagataga gaggggggatt taaaataaga aactggaaaa acttgggaaa ggaagaaaat 300
 ttggataaaa agaaaagggt gctagggcnn aaagaaanan gagnaang aaagagaaag 360
 aagggaagaa gaaganaaga anaaaagaga aaaaaaaga ggaaagaagg aaaangagag 420
 agaaggaaaa gaagagtaaa gagggagaaa gagagaaata aggaatgata gaaggaagga 480
 atgagaaaaa gaggaaaaaa gatagagaga gaaagaagaa attaggaaag aaaaaaatat 540
 aagttaatag gataaagaga gaagaatata agtataaaga gataaatgaa tgagagatga 600
 agtggaaata tgaatgaatg taaagaatta taatagtga gattgtagga tatagaagga 660
 agtaatgaat gatatgagag aataaatgaa tagaatagaa taatgagata gaaagatata 720

agaatatgta agaganatat gagattataa agtatgatga agtgagataa gtagaagggt 780
 tgtaaagtga aaaatnagta agatagatag atgtaataga ataaataaga ggtgattata 840
 gatatttatg aatggaagaa atggaaagat atagagtata tgataaggaa gatgtataga 900
 atataataga aggatatata aagagataag tagaaaagggt atgaatatga agtgaataat 960
 attgtaggga aatgaatata agattataat natatatatg taagaatntt ataggaatgt 1020
 aaagatggta tggataagag aaagaataag tggaaatgagt atatgagaag atgagtataa 1080
 ataggagan 1089

<210> 2672
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 2672

tatttcactc aagccagccc catagaactt tggcataaga gacttggcca ttgtcatatt 60
 caaagaatgt tgaacatgaa gaagaaagac atgaccagaa gtctaattggg gttttctcgc 120
 caaattgcaa tgcttggcag tttggtaaac aaaatagaat gccatttccc aaatcaactt 180
 ggagagcctc tcaaaagatg caactaattc aactaatgt ggcagaacct caaagaacac 240
 catcactaca agggagttca tactttattc ttttcataga tgattttaca agaattgtgtt 300
 ggattttttt cttaaaattc aggcattgaag tggctagagt atttataaag gttaaagaag 360
 atggtggaaa ctccaagtgg ctgcaagatt caagttctaa gaaccgataa tgggaaggaa 420
 tata 424

<210> 2673
 <211> 207
 <212> DNA
 <213> Glycine max

<400> 2673

tatggattat agtagttcag ctgtatcttt gtttaaagag tttttgggtg ttgagcattt 60
 ggctcaaaga ttacagatag aggttcattggt tttgctggag agaattgataa 120
 tgtgatgctc actggtgaaa gctcaagaca tagtactcat cagctttact ctcaagaagag 180
 gctgataaaa gtgtccctta aggcctt 207